

A. TREDWAY ^{AND} SONS
HARDWARE CO.

Dubuque, Iowa

Thruway

MARCH 15, 1895.

...CATALOGUE...

OF

IRON, STEEL, WOOD STOCK,

Heavy Hardware, Etc.

*A. Tredway & Sons
Hardware Co.*

DEALERS IN

BLACKSMITHS', HORSESHOERS', WAGONMAKERS' AND WOODWORKERS'
TOOLS AND SUPPLIES,

CARRIAGE ~~AND~~ WAGON HARDWARE,

MALLEABLE CASTINGS,

~~WAGON AND CARRIAGE WOODWORK.~~

Bob and Cutter Stuff, Plow Material and Hardwood Lumber,

465, 467, 469 and 471 Iowa St.,

DUBUQUE, = = IOWA.

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MARCH 1st, 1888

CATALOGUE...

IRON SHEET, WOOD STOCK

Heavy Hardware, Etc.

A. Treadway & Sons
Hardware Co.

Hardie & Scharle
Printers and Binders
Dubuque

BACKSHEETS, HERSEY HORSES, WOODWORKERS,
BOOK AND SHIRT LACES

CARRIAGE AND WAGON HARDWARE

WHEELS AND CASTINGS

WOOD AND CARRIAGE WOODWORK

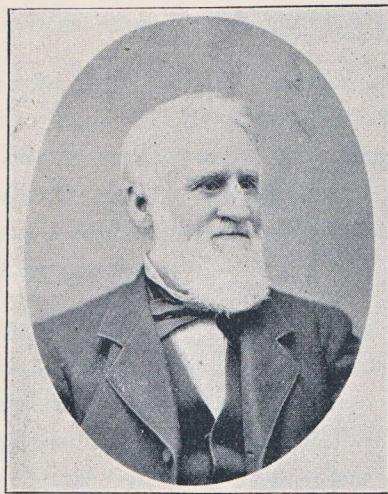
Top and China Stns., Iron Plates and Hardwood Furniture

102, 103, 104 and 111 Iowa St.

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TO THE TRADE.

The Prices given in this Catalogue are, so far as possible, Manufacturers' Standard Lists, and are subject to more or less Discount. The Catalogue is gotten up more as a help to our trade in knowing what goods we can furnish and as a guide in making up their orders, than an indication of our Prices.

We invite your inquiries at all times in regard to Prices, and if a memorandum of the Goods desired is enclosed, we can immediately return our lowest Prices. We issue no Discount Sheet applying to this Catalogue as, owing to frequent changes in the market value of such staple goods, no Discount could be printed which would be long in force.

To the Merchant Trade we desire to say that our large combined stock of the class of goods shown in this Catalogue, and of Shelf Hardware and Tinware, enables us to fill the many orders which arise including articles of both classes, at an advantage over any house in the West, thus saving them the unnecessary expense of having shipments from two or three jobbers instead of one.

Soliciting a continuance of the many favors shown us in the past, we are,

Respectfully Yours,

A. TREDWAY & SONS HARDWARE CO.

CREDIT.

New customers, or those having no account with us, in order to avoid delay, will please accompany their order with a remittance to cover the probable amount; or, if credit is desired, send references and we will endeavor to arrange terms to your satisfaction.

TERMS.

All sales are made for cash. When credit is approved we allow 30 days' time on Iron, Horse Shoes and other heavy goods, and 60 days' time on Wood Stock, Tools and similar articles.

To encourage prompt payment, within 10 days from date of invoice we allow a cash discount of 1% on 30-day goods, and 2% on 60-day goods.

All accounts are due at our office and are payable in Dubuque, New York or Chicago current funds. We pay no exchange nor express charges on remittances.

CLAIMS.

Claims for errors must be made immediately upon receipt of goods. Give date on invoice upon which error occurs and we will give the matter immediate and cheerful attention.

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" Box Iron	17	" " Express	194
" " Rivets	28	" " Finished	194-195
" " Rods	40	" " Ironed	194
		" " Swivel	195
		Yoke and Brace, King Bolt	55

STANDARD IRON LIST.

FLAT BAR.

	Extras to be added to Rate. Base.
1 $\frac{1}{2}$ to 4 x $\frac{3}{8}$ to 1 inch.....	0.10
4 $\frac{1}{2}$ to 6 x $\frac{3}{8}$ to 1 inch.....	0.40
7 to 8 x $\frac{3}{8}$ to 1 inch.....	0.80
2 $\frac{1}{4}$ to 8 x 1 $\frac{3}{4}$ to 2 inch.....	1.00
1 $\frac{1}{4}$ and 1 $\frac{3}{8}$ x $\frac{3}{8}$ to $\frac{3}{4}$ inch.....	0.10
1 and 1 $\frac{1}{8}$ x $\frac{3}{8}$ to $\frac{3}{4}$ inch.....	0.20
$\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ x $\frac{3}{8}$ to $\frac{5}{8}$ inch.....	0.40

ROUND AND SQUARE.

	Base.
1 to 1 $\frac{1}{8}$ inch.....	0.20
2 to 2 $\frac{5}{8}$ inch.....	0.50
2 $\frac{3}{4}$ to 3 $\frac{1}{4}$ inch.....	1.00
3 $\frac{3}{8}$ to 4 inch.....	1.30
4 $\frac{1}{4}$ to 5 inch.....	0.10
$\frac{3}{4}$ and $\frac{7}{8}$ inch.....	0.20
$\frac{5}{8}$ and $\frac{9}{16}$ inch.....	0.40
$\frac{1}{2}$ and $\frac{7}{16}$ inch.....	0.60
$\frac{3}{8}$ inch.....	0.80
$\frac{5}{16}$ inch.....	1.00
$\frac{1}{4}$ inch.....	3.00
$\frac{3}{8}$ inch.....	

OVAL.

7 $\frac{1}{8}$ to 1 $\frac{1}{2}$ inch.....	0.40
5 $\frac{5}{8}$ to $\frac{3}{4}$ inch.....	0.60
1 $\frac{1}{2}$ inch.....	0.80
3 $\frac{3}{8}$ inch.....	1.20

HALF OVAL AND HALF ROUND.

7 $\frac{1}{8}$ to 1 $\frac{1}{4}$ inch.....	0.70
5 $\frac{5}{8}$ to $\frac{3}{4}$ inch.....	1.20
1 $\frac{1}{2}$ inch.....	1.50
3 $\frac{3}{8}$ inch.....	3.00

WAGON BOX IRON.

3 $\frac{1}{4}$, $\frac{7}{8}$ and 1 inch, No. 12.....	1.50
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HORSE SHOE IRON.

All Sizes.....	1.00
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HEAVY BAND.

	Extras to be added to Rate.
7 to 8 x $\frac{1}{4}$ and $\frac{5}{16}$ inch.....	1.00
1 $\frac{1}{2}$ to 6 x $\frac{1}{4}$ and $\frac{5}{16}$ inch.....	0.20
1 to 1 $\frac{3}{8}$ x $\frac{1}{4}$ and $\frac{5}{16}$ inch.....	0.30
$\frac{3}{4}$ to $\frac{7}{8}$ x $\frac{1}{4}$ and $\frac{5}{16}$ inch.....	0.50
$\frac{1}{2}$ to $\frac{5}{8}$ x $\frac{1}{4}$ and $\frac{5}{16}$ inch.....	1.00

LIGHT BAND.

7 to 8 x $\frac{1}{8}$ to $\frac{3}{16}$ inch.....	1.50
3 to 6 x $\frac{1}{8}$ to $\frac{3}{16}$ inch.....	0.30
1 $\frac{1}{2}$ to $2\frac{3}{4}$ x $\frac{1}{8}$ to $\frac{3}{16}$ inch.....	0.50
1 to $1\frac{3}{8}$ x $\frac{1}{8}$ to $\frac{3}{16}$ inch.....	0.70
$\frac{3}{4}$ and $\frac{5}{8}$ x $\frac{1}{8}$ to $\frac{3}{16}$ inch.....	1.00
$\frac{1}{2}$ and $\frac{5}{8}$ x $\frac{1}{8}$ to $\frac{3}{16}$ inch	1.50
3 to 6 inch, Nos. 11 and 12.....	0.50
1 $\frac{1}{2}$ to $2\frac{3}{4}$ inch, Nos. 11 and 12.....	0.70
1 to $1\frac{3}{8}$ inch, Nos. 11 and 12.....	0.90
$\frac{3}{4}$ and $\frac{7}{8}$ inch, Nos. 11 and 12.....	1.20
$\frac{1}{2}$ and $\frac{5}{8}$ inch, Nos. 11 and 12.....	1.70

HOOP IRON.

$\frac{9}{16}$, Nos. 13 to 16	\$2.90
$\frac{5}{8}$, Nos. 13 to 16.....	2.70
$\frac{11}{16}$, Nos. 13 to 16.....	2.40
$\frac{3}{4}$, Nos. 13 to 16.....	2.20
$\frac{13}{16}$, Nos. 13 to 16.....	1.90
$\frac{7}{8}$, Nos. 13 to 16.....	1.70
1 and $1\frac{1}{8}$, Nos. 13 to 15.....	1.30
$1\frac{1}{4}$ to 2, Nos. 13 to 15.....	.90
$2\frac{1}{4}$ to $3\frac{1}{2}$, Nos. 13 to 15.....	1.00
1 and $1\frac{1}{8}$, Nos. 16 to 18 }	1.60
$1\frac{1}{4}$ to 2, Nos. 16 to 18....	1.10
$\frac{1}{2}$, Nos. 17 to 20.....	3.50
$\frac{9}{16}$, Nos. 17 to 20.....	3.20
$\frac{5}{8}$, Nos. 17 to 20.....	3.00
$1\frac{1}{4}$, Nos. 17 to 20.....	2.70
$\frac{3}{4}$, Nos. 17 to 20.....	2.50
$1\frac{1}{8}$, Nos. 17 to 20.....	2.20
$\frac{7}{8}$, Nos. 17 to 20.....	2.00

$\frac{1}{10}c$ per pound extra for
each gauge lighter.

EXTRAS.

Extras for cutting to length, for ordinary lengths.....	.10
" " " for short lengths.....	At discretion.

Norway and Swedish Iron.

CLASSIFICATION.

Rounds and Squares.

	Extras to be added to Rate.
Base.	
1 to $1\frac{7}{8}$ inch.....	.20
2 to $2\frac{5}{8}$ inch.....	.10
$\frac{3}{4}$ to $\frac{7}{8}$ inch.....	.20
$\frac{1}{8}$ to $\frac{5}{8}$ inch.....	.40
$\frac{7}{8}$ to $\frac{1}{2}$ inch.....	.60
$\frac{3}{8}$ inch.....	.80
$\frac{5}{16}$ inch.....	1.00
$\frac{1}{4}$ inch.....	3.00
$1\frac{3}{8}$ inch.....	

Flats.

Base.	
$1\frac{1}{2}$ to $4 \times \frac{3}{8}$ to 1 inch thick .....	.10
$1\frac{1}{4}$ and $1\frac{3}{8} \times \frac{3}{8}$ to 1 inch thick.....	.20
1 and $1\frac{1}{8} \times \frac{3}{8}$ to $\frac{3}{4}$ inch thick.....	.40
$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8} \times \frac{3}{8}$ to $\frac{5}{8}$ inch thick.....	.60
$1\frac{1}{2}$ to $6 \times \frac{1}{4}$ and $\frac{5}{16}$ inch thick.....	.80
1 to $1\frac{3}{8} \times \frac{1}{4}$ and $\frac{5}{16}$ inch thick.....	1.00
$\frac{3}{4}$ and $\frac{7}{8} \times \frac{1}{4}$ and $\frac{5}{16}$ inch thick.....	3.00
$\frac{1}{2}$ and $\frac{5}{8} \times \frac{1}{4}$ and $\frac{5}{16}$ inch thick.....	

Ovals.

$\frac{5}{8}$ to $\frac{3}{4}$ inch .....	.60
$\frac{1}{2}$ inch .....	.80
$\frac{3}{8}$ and $1\frac{7}{8}$ inch	1.20

Half Ovals and Half Rounds.

$\frac{5}{8}$ to $\frac{3}{4}$ inch	1.20
$\frac{1}{2}$ inch	1.50
$\frac{3}{8}$ and $1\frac{7}{8}$ inch	3.00

Nail Rods.

$\frac{3}{8} \times \frac{3}{16}$ inch, 25-lb. and 50-lb. bundles.....	1.50
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STEEL.

"Black Diamond."

PLOW STEEL.

Park Bros. & Co. "Black Diamond."

Crucible Cast, 4 to 7 inches wide x $\frac{1}{4}$ inch thick05½c per lb.
Soft Center, 4 to 7 inches wide x $\frac{1}{4}$ inch thick .....	.09 "
Open Hearth, 4 to 7 inches wide x $\frac{1}{4}$ inch thick .....	.04 "

TOOL STEEL.

Park Bros. & Co. "Black Diamond."

Octagon and Square, $\frac{1}{4}$ and $\frac{5}{16}$ .....	.15c per lb.
" " $\frac{3}{8}$ and $\frac{1}{2}$ .....	.12 "
" " $\frac{5}{8}$ to 2 .....	.10 "
Flats, $\frac{1}{8}$ thick x $\frac{5}{8}$ to 3 wide .....	.15 "
" $\frac{3}{16}$ thick x $\frac{5}{8}$ to 3 wide .....	.13 "
" $\frac{1}{4}$ thick x $\frac{5}{8}$ to 3 wide .....	.12 "
" $\frac{3}{8}$ or $\frac{1}{2}$ thick x 1 to 3 wide .....	.10 "
English, Octagon and Square .....	.20 "

SPRING STEEL.

Spring Steel, 1 to 3 inch x $\frac{1}{4}$ to $\frac{5}{16}$ .....	.04c per lb.
" " $\frac{3}{4}$ to 1 inch x $\frac{1}{8}$ .....	.06 "

STEEL TIRE.

Steel Tire, $\frac{3}{4}$ to 1 inch x $\frac{3}{16}$ .....	.05c per lb.
" " $\frac{3}{4}$ to $\frac{7}{8}$ inch x $\frac{1}{4}$ .....	.05 "
" " 1 to $1\frac{1}{2}$ inch x $\frac{1}{4}$ .....	.04 "
" " 1 to $1\frac{1}{2}$ inch x $\frac{5}{16}$ .....	.04 "

ROUND MACHINERY STEEL.

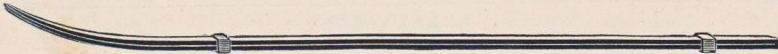
$\frac{1}{4}$ inch diameter .....	.08c per lb.
$\frac{5}{16}$ and $\frac{3}{8}$ inch diameter .....	.07 "
$\frac{1}{2}$ and $\frac{5}{8}$ inch diameter06 "
$\frac{3}{4}$ to 2 inch diameter05 "

TOE CALK STEEL.

$\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ x $\frac{3}{8}$ to 1 inch05c per lb.
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SLEIGH SHOE STEEL.

$\frac{1}{2}$ x $\frac{3}{4}$ to $1\frac{1}{4}$ inches05c per lb.
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STEEL CUTTER SHOES.

All Sizes—stock length, 7 feet06c per lb.
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Steel Wire AND Steel Cut Nails.

COMMON NAILS.



Full Size Cut of 10d Common Nail.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
2d Common.	1 inch No. 15 $\frac{1}{2}$	900	\$1.60
3d "	1 $\frac{1}{4}$ " 14 $\frac{1}{2}$	615	.120
4d "	1 $\frac{1}{2}$ " 13	322	.00
5d "	1 $\frac{3}{4}$ " 12 $\frac{1}{2}$	254	.90
6d "	2 " 12	200	.75
7d "	2 $\frac{1}{4}$ " 11 $\frac{1}{2}$	154	.75
8d "	2 $\frac{1}{2}$ " 10 $\frac{1}{2}$	106	.60
9d "	2 $\frac{3}{4}$ " 10	85	.60
10d "	3 " 9 $\frac{1}{2}$	74	.50
12d "	3 $\frac{1}{4}$ " 9	57	.45
16d "	3 $\frac{1}{2}$ " 8	46	.45
20d "	4 " 6	29	.35
30d "	4 $\frac{1}{2}$ " 5	23	.25
40d "	5 " 4	17	.25
50d "	5 $\frac{1}{2}$ " 3	13 $\frac{1}{2}$	.10
60d "	6 " 2	10 $\frac{1}{2}$	Base.



FENCE NAILS.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
5d Fence.	1 $\frac{3}{4}$ inch No. 10	127	\$.90
6d "	2 " 10	114	.75
7d "	2 $\frac{1}{4}$ " 9	88	.75
8d "	2 $\frac{1}{2}$ " 9	74	.60
9d "	2 $\frac{3}{4}$ " 8	58	.60
10d "	3 " 7	42	.50
12d "	3 $\frac{1}{4}$ " 6	36	.45
16d "	3 $\frac{1}{2}$ " 5	28	.45
20d "	4 " 4	22	.35

Each Half Keg, 10c extra. Each 25-lb. Box, 10c extra.



FINISHING NAILS.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
2d Finishing.	1 inch No. 17	1558	\$1.90
3d "	1 $\frac{1}{4}$ " 16	884	1.65
4d "	1 $\frac{1}{2}$ " 16	767	1.45
5d "	1 $\frac{1}{4}$ " 15	491	1.25
6d "	2" 14	359	1.10
7d "	2 $\frac{1}{4}$ " 14	317	1.10
8d "	2 $\frac{1}{2}$ " 13	214	.90
9d "	2 $\frac{3}{4}$ " 13	195	.90
10d "	3" 12	134	.75
12d "	3 $\frac{1}{4}$ " 12	120	.65
16d "	3 $\frac{1}{2}$ " 11	91	.65
20d "	4" 10	61	.60

CASING NAILS.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
2d Casing.	1 inch No. 16	1140	\$1.75
3d "	1 $\frac{1}{4}$ " 15	675	1.50
4d "	1 $\frac{1}{2}$ " 15	567	1.25
5d "	1 $\frac{1}{4}$ " 14	396	1.10
6d "	2" 13	260	.90
7d "	2 $\frac{1}{4}$ " 13	239	.90
8d "	2 $\frac{1}{2}$ " 12	160	.75
9d "	2 $\frac{3}{4}$ " 12	148	.75
10d "	3" 11	108	.65
12d "	3 $\frac{1}{4}$ " 11	99	.60
16d "	3 $\frac{1}{2}$ " 10	69	.60
20d "	4" 9	50	.50
30d "	4 $\frac{1}{2}$ " 9	45	.40
40d "	5" 8	35	.40

Each Half Keg, 10c extra. Each 25-lb. Box, 10c extra.

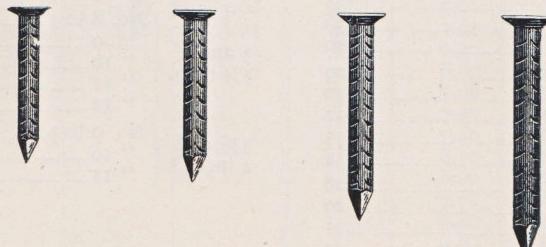
FINE NAILS.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
2d Fine.	1 inch No. 17	1440	\$1.90
3d "	1 $\frac{1}{8}$ " 15 $\frac{1}{2}$	810	1.60
4d "	1 $\frac{1}{2}$ " 15	550	1.25

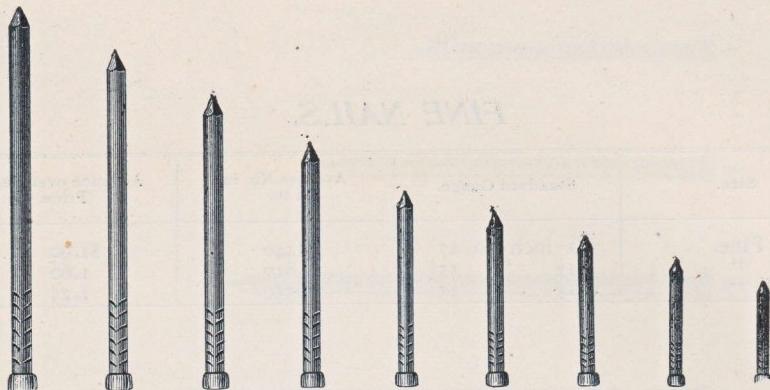
BARREL NAILS.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
$\frac{3}{4}$ inch Barrel.	$\frac{3}{4}$ inch No. 15 $\frac{1}{2}$	940	\$2.00
$\frac{5}{8}$ " "	$\frac{5}{8}$ " 14 $\frac{1}{2}$	804	1.75
I	I " 14 $\frac{1}{2}$	620	1.50
I $\frac{1}{8}$ " "	I $\frac{1}{8}$ " 14 $\frac{1}{2}$	590	1.40
I $\frac{1}{4}$ " "	I $\frac{1}{4}$ " 14	542	1.20
I $\frac{3}{8}$ " "	I $\frac{3}{8}$ " 13	365	1.00
I $\frac{1}{2}$ " "	I $\frac{1}{2}$ " 13	322	.90

Each Half Keg, 10c extra. Each 25-lb. Box, 10c extra.

BARBED ROOFING NAILS.

Size.	Standard Gauge.	Average No. in 1 lb.	Advance over Base Price.
$\frac{3}{4}$ inch Barb Roofing.	$\frac{3}{4}$ inch No. 13	648	\$2.00
$\frac{5}{8}$ " " "	$\frac{5}{8}$ " 12	413	1.75
I " " "	I " 12	384	1.50
I $\frac{1}{8}$ " " "	I $\frac{1}{8}$ " 12	339	1.40
I $\frac{1}{4}$ " " "	I $\frac{1}{4}$ " 11	231	1.25
I $\frac{3}{8}$ " " "	I $\frac{3}{8}$ " 10	154	1.10
I $\frac{1}{2}$ " " "	I $\frac{1}{2}$ " 10	135	1.05
2 " " "	2 " 9	90	.90



Miscellaneous Wire Nail List,

Applying to all Nails except Standard Nails
in Kegs or Boxes.

PRICES STATED ARE FOR ONE-POUND PACKAGES.

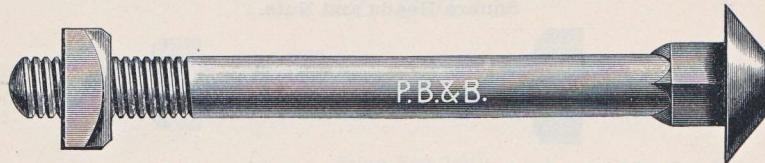
Length.	Gauge.	Per lb.	Length.	Gauge.	Per lb.	
$\frac{1}{4}$ inch.	No. 19	65c	$1\frac{1}{2}$ inch.	No. 13 to 4	24c	
	" 20	85		" 14	26	
	" 21	95		" 15	27	
$\frac{3}{8}$ inch.	No. 18	50		" 16	28	
	" 19	55		" 17	29	
	" 20	65	$1\frac{3}{4}$ inch.	No. 12 to 4	23	
$\frac{1}{2}$ inch.	" 21	75		" 13	24	
	No. 18 to 14 .....	.45		" 14	25
	" 19	50		" 15	26	
$\frac{5}{8}$ inch.	" 20	55	2 and 2 $\frac{1}{4}$ inch.	No. 12 to 3	23	
	No. 17 to 12	38		" 13	24	
	" 18	40		" 14	25	
$\frac{3}{4}$ inch.	" 19	45	$2\frac{1}{2}$ and 2 $\frac{3}{4}$ inch.	No. 9 to 3	21	
	" 20	50		" 10	22	
	No. 15 to 10	31		" 11	23	
$\frac{7}{8}$ inch.	" 16	33		" 12	24	
	" 17	35		" 13	25	
	" 18	36	3 and 3 $\frac{1}{4}$ inch.	No. 8 to 3	20	
$\frac{1}{2}$ and $1\frac{1}{8}$ inch.	" 19	40		" 9	21	
	No. 14 to 8 .....	.29		" 10	22
	" 15	30		" 11	23	
$\frac{7}{8}$ inch.	" 16	32		" 12	24	
	" 17	33	3 $\frac{1}{2}$ and 4 inch.	No. 9 to 3	20	
	" 18	34		" 10	21	
$1\frac{1}{4}$ and $1\frac{3}{8}$ inch.	No. 15 to 7	28		" 11	22	
	" 16	29				
	" 17	31				
	" 18	32				
$1\frac{1}{4}$ and $1\frac{3}{8}$ inch.	No. 13 to 6	26				
	" 14	27				
	" 15	28				
	" 16	29				
	" 17	30				

EXTRAS--Add to List.

$\frac{1}{2}$ -lb. Papers, 4c. $\frac{1}{4}$ -lb. Papers, 8c. Oval, Cone or other Special Heads or Special Points, or for Barbing or Annealing, 2c. Nails combining several specialties, add as above for each. Galvanized or Tinned Nails at Special Prices.

REBATES--Deduct from List.

Nails in 25 lb. or 50-lb. Boxes, or 100-lb. Kegs, bulk, 1c.

COMMON CARRIAGE BOLTS.

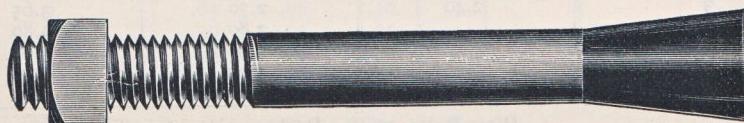
Standard List Adopted Jan. 30, 1895. In Effect Feb. 14, 1895.

Price Per 100.

Length.	$\frac{3}{16}$ and $\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ and $\frac{5}{8}$	$\frac{3}{4}$
1 to $1\frac{1}{2}$	\$ 1.00	\$ 1.20	\$ 1.50	\$ 2.20	\$ 3.00	\$ 5.00	\$ 7.20
$1\frac{3}{4}$	1.04	1.25	1.50	2.20	3.00	5.00	7.20
2	1.08	1.30	1.50	2.20	3.00	5.00	7.20
$2\frac{1}{4}$	1.12	1.35	1.57	2.28	3.00	5.00	7.20
$2\frac{1}{2}$	1.16	1.40	1.64	2.36	3.00	5.00	7.20
$2\frac{3}{4}$	1.20	1.45	1.71	2.44	3.00	5.00	7.20
3	1.24	1.50	1.78	2.52	3.00	5.00	7.20
$3\frac{1}{4}$	1.28	1.55	1.85	2.60	3.10	5.15	7.40
$3\frac{1}{2}$	1.32	1.60	1.92	2.68	3.20	5.30	7.60
$3\frac{3}{4}$	1.36	1.65	1.99	2.76	3.30	5.45	7.80
4	1.40	1.70	2.06	2.84	3.40	5.60	8.00
$4\frac{1}{4}$	1.44	1.75	2.13	2.92	3.50	5.75	8.20
$4\frac{1}{2}$	1.48	1.80	2.20	3.00	3.60	5.90	8.40
$4\frac{3}{4}$	1.52	1.85	2.27	3.08	3.70	6.05	8.60
5	1.56	1.90	2.34	3.16	3.80	6.20	8.80
$5\frac{1}{2}$	1.64	2.00	2.48	3.32	4.00	6.50	9.20
6	1.72	2.10	2.62	3.48	4.20	6.80	9.60
$6\frac{1}{2}$	1.80	2.20	2.76	3.64	4.40	7.10	10.00
7	1.88	2.30	2.90	3.80	4.60	7.40	10.40
$7\frac{1}{2}$	1.96	2.40	3.04	3.96	4.80	7.70	10.80
8	2.50	3.18	4.12	5.00	8.00	11.20	
$8\frac{1}{2}$	2.60	3.32	4.28	5.20	8.30	11.60	
9	2.70	3.46	4.44	5.40	8.60	12.00	
$9\frac{1}{2}$	2.80	3.60	4.60	5.60	8.90	12.40	
10	2.90	3.74	4.76	5.80	9.20	12.80	
11		4.02	5.08	6.20	9.80	13.60	
12		4.30	5.40	6.60	10.40	14.40	
13				5.72	7.00	11.00	15.20
14				6.04	7.40	11.60	16.00
15					7.80	12.20	16.80
16					8.20	12.80	17.60
17					8.60	13.40	18.40
18					9.00	14.00	19.20
19					9.40	14.60	20.00
20					9.80	15.20	20.80

SLEIGH SHOE BOLTS.

(Same List as above.)



MACHINE BOLTS.

Square Heads and Nuts.

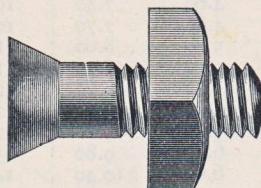


Standard List Adopted Jan. 30, 1895. In Effect Feb. 14, 1895.

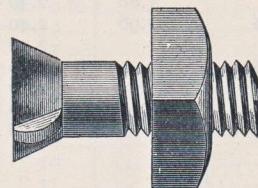
Price per 100.

Length.	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
1 $\frac{1}{2}$	\$ 2.00	\$ 2.40	\$ 2.80	\$ 3.60
2	2.10	2.52	2.96	3.80
2 $\frac{1}{2}$	2.20	2.64	3.12	4.00
3	2.30	2.76	3.28	4.20
3 $\frac{1}{2}$	2.40	2.88	3.44	4.40
4	2.50	3.00	3.60	4.60
4 $\frac{1}{2}$	2.60	3.12	3.76	4.80
5	2.70	3.24	3.92	5.00
5 $\frac{1}{2}$	2.80	3.36	4.08	5.20
6	2.90	3.48	4.24	5.40
6 $\frac{1}{2}$	3.00	3.60	4.40	5.60
7	3.10	3.72	4.56	5.80
7 $\frac{1}{2}$	3.20	3.84	4.72	6.00
8	3.30	3.96	4.88	6.20
9	3.50	4.20	5.20	6.60
10	3.70	4.44	5.52	7.00

Machine Bolts, 50 in a Package.

PLOW BOLTS.

Round Head.



Key Head.

Standard List Per 100.

Length.	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
1 $\frac{1}{4}$	\$ 1.70	\$ 2.00	\$ 2.60
1 $\frac{1}{2}$	1.80	2.10	2.75
1 $\frac{3}{4}$	1.90	2.20	2.90
2	2.00	2.30	3.05
2 $\frac{1}{4}$	2.10	2.40	3.20
2 $\frac{1}{2}$	2.20	2.50	3.35
2 $\frac{3}{4}$	2.30	2.60	3.50
3	2.40	2.70	3.65
3 $\frac{1}{4}$		2.80	3.80
3 $\frac{1}{2}$		2.90	3.95
3 $\frac{3}{4}$		3.00	4.10
4		3.10	4.25

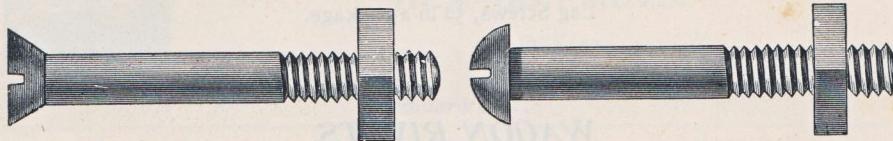
Plow Bolts, 50 in a Package.

TIRE BOLTS.

Price Per 100.

Length.	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$
1 $\frac{1}{4}$	\$.60	\$.80	\$ 1.10
1 $\frac{1}{2}$	.60	.80	1.10
1 $\frac{3}{4}$	.65	.85	1.10
2	.70	.90	1.17
2 $\frac{1}{4}$	.75	.95	1.24
2 $\frac{1}{2}$	.80	1.00	1.31
2 $\frac{3}{4}$	.85	1.05	1.38
3	.90	1.10	1.45
3 $\frac{1}{4}$	.95	1.15	1.52
3 $\frac{1}{2}$	1.00	1.20	1.59
3 $\frac{3}{4}$	1.05	1.25	1.66
4		1.30	1.73
4 $\frac{1}{4}$		1.35	1.80
4 $\frac{1}{2}$		1.40	1.87
5		1.50	2.00

Tire Bolts, 100 in a box.

STOVE BOLTS.**FLAT HEADS.**

Price Per 100.

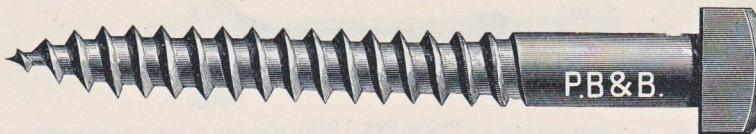
Length.	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$
$\frac{1}{2}$	\$.60	\$.65	
$\frac{5}{8}$	.60	.65	
$\frac{3}{4}$	.60	.65	\$ 1.05
$\frac{7}{8}$	.65	.70	1.10
1	.65	.70	1.10
1 $\frac{1}{4}$	.70	.75	1.15
1 $\frac{1}{2}$	.75	.80	1.20
1 $\frac{3}{4}$	.80	.85	1.25
2	.85	.90	1.30
2 $\frac{1}{4}$	.90	.95	1.35
2 $\frac{1}{2}$	.95	1.00	1.40
2 $\frac{3}{4}$	1.00	1.05	1.45
3	1.05	1.10	1.50

ROUND HEADS.

Price Per 100.

Length.	$\frac{3}{16}$	$\frac{1}{4}$
$\frac{1}{2}$	\$.85	\$.95
$\frac{5}{8}$	.85	.95
$\frac{3}{4}$	.85	.95
$\frac{7}{8}$	.90	1.00
1	.90	1.00
1 $\frac{1}{4}$	.95	1.05
1 $\frac{1}{2}$	1.00	1.10
1 $\frac{3}{4}$	1.05	1.15
2	1.10	1.20
2 $\frac{1}{4}$	1.15	1.25
2 $\frac{1}{2}$	1.20	1.30
2 $\frac{3}{4}$	1.25	1.35
3	1.30	1.40

Stove Bolts, 100 in a box.

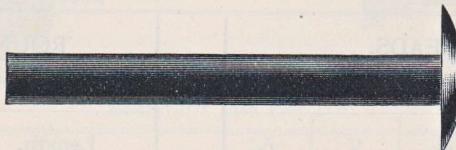
GIMLET-POINTED SKEIN BOLTS AND LAG SCREWS.

Standard List Adopted Jan. 30, 1895. In Effect Feb. 14, 1895.

Price Per 100.

Length.	$\frac{1}{4}$ and $\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ and $\frac{5}{8}$	$\frac{3}{4}$
1 $\frac{1}{2}$	\$ 2.25	\$ 2.70	\$ 3.15	\$ 3.75		
2	2.40	2.88	3.39	4.05	\$ 4.95	
2 $\frac{1}{2}$	2.55	3.06	3.63	4.35	5.40	\$ 7.92
3	2.70	3.24	3.87	4.65	5.85	8.58
3 $\frac{1}{2}$	2.85	3.42	4.11	4.95	6.30	9.24
4	3.00	3.60	4.35	5.25	6.75	9.90
4 $\frac{1}{2}$	3.15	3.78	4.59	5.55	7.20	10.56
5	3.30	3.96	4.83	5.85	7.65	11.22
5 $\frac{1}{2}$	3.45	4.14	5.07	6.15	8.10	11.88
6			5.31	6.45	8.55	12.54
6 $\frac{1}{2}$			5.55	6.75	9.00	13.20
7			5.79	7.05	9.45	13.86
7 $\frac{1}{2}$			6.03	7.35	9.90	14.52
8			6.27	7.65	10.35	15.18
9			6.75	8.25	11.25	16.50
10				8.85	12.15	17.82

Lag Screws, 50 in a package.

WAGON RIVETS.

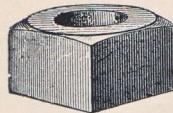
Flat Head.

Flat Head, 1 to 4 x $\frac{1}{4}$ inch.....	Per lb., .08
" " $\frac{3}{4}$ to 3 x $\frac{3}{16}$ "	.09



Oval Head.

Oval Head, 1 to 3 x $\frac{1}{4}$ inch.....	Per lb., .08
" " $\frac{3}{4}$ to 3 x $\frac{3}{16}$ "	.09

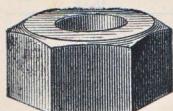


SQUARE NUTS.

200-lb. Kegs.

Standard List.

Width.	Thickness.	Hole.	Size of Bolt.	Price per lb.
1 ¹ / ₂	1 ³ / ₈	5 ⁵ / ₁₆	1 ³ / ₈	30 Cents.
1 ¹ / ₂	1 ¹ / ₄	3 ⁷ / ₁₆	1 ¹ / ₄	13 " "
5 ⁷ / ₈	1 ⁵ / ₁₆	3 ¹ / ₂	1 ¹ / ₆	11 ¹ / ₂ " "
3 ³ / ₄	3 ⁷ / ₈	3 ¹ / ₂	3 ⁷ / ₈	10 " "
7 ⁷ / ₈	1 ⁷ / ₁₆	3 ¹ / ₂	1 ⁷ / ₁₆	9 " "
7 ⁷ / ₈	1 ¹ / ₂	7 ⁷ / ₁₆	1 ¹ / ₂	9 " "
1	1 ¹ / ₂	7 ⁷ / ₁₆	1 ¹ / ₂	8 ⁷ / ₁₀ " "
1 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₂	9	8 ¹ / ₂ " "
1 ¹ / ₈	5 ⁷ / ₈	9	5 ⁷ / ₈	8 ¹ / ₂ " "
1 ¹ / ₄	5 ⁷ / ₈	9	5 ⁷ / ₈	8 ¹ / ₁₀ " "
1 ³ / ₈	3 ⁴	1 ¹ / ₆ OR 2 ¹ / ₁₆	3 ⁴	8 ⁴ / ₅ " "
1 ¹ / ₂	3 ⁴	1 ¹ / ₆ OR 2 ¹ / ₁₆	3 ⁴	8 ¹ / ₁₀ " "
1 ⁵ / ₈	7 ⁸	1 ³ / ₁₆ OR 2 ² / ₃₂	7 ⁸	8 ² / ₅ " "
1 ³ / ₄	7 ⁸	1 ³ / ₁₆ OR 2 ² / ₃₂	7 ⁸	8 ¹ / ₁₀ " "
1 ³ / ₄	I	7 ⁸ OR 3 ⁵ / ₃₂	I	8 ² / ₅ " "
2	I	7 ⁸ OR 3 ⁵ / ₃₂	I	8 ¹ / ₁₀ " "
2	1 ¹ / ₈	1 ⁵ OR I	1 ¹ / ₈	8 ² / ₅ " "
2 ¹ / ₄	1 ¹ / ₈	1 ⁵ OR I	1 ¹ / ₈	8 ¹ / ₁₀ " "
2 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₆ OR I ¹ / ₈	1 ¹ / ₄	8 ³ / ₁₀ " "
2 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₆ OR I ¹ / ₈	1 ¹ / ₄	8 ¹ / ₁₀ " "
2 ³ / ₄	1 ³ / ₈	I ³ / ₁₆ OR I ¹ / ₄	I ³ / ₈	8 ¹ / ₁₀ " "
3	I ¹ / ₂	I ⁵ / ₁₆ OR I ³ / ₈	I ¹ / ₂	8 ¹ / ₁₀ " "
3 ¹ / ₄	I ⁵ / ₈	I ⁷ / ₁₆	I ⁵ / ₈	8 ¹ / ₁₀ " "
3 ¹ / ₂	I ³ / ₄	I ⁹ / ₁₆	I ³ / ₄	9 ³ / ₁₀ " "
3 ³ / ₄	I ⁷ / ₈	I ¹¹ / ₁₆	I ⁷ / ₈	9 ¹ / ₁₀ " "
4	2	I ¹³ / ₁₆	2	9 ³ / ₁₀ " "

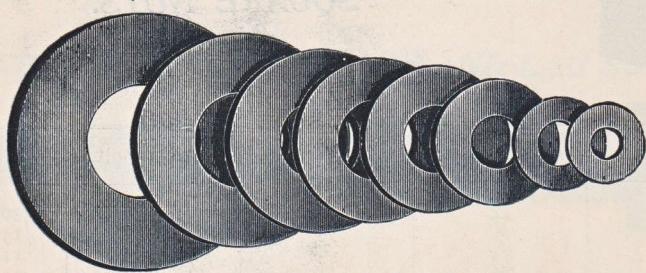


HEXAGON NUTS.

200-lb. Kegs.

Standard List.

Width.	Thickness.	Hole.	Size of Bolt.	Price per lb.
1 ¹ / ₂	1 ¹ / ₄	7 ⁷ / ₁₆	1 ¹ / ₄	20 Cents.
5 ⁷ / ₈	1 ⁵ / ₁₆	9 ⁵ / ₁₆	1 ⁶ / ₁₆	16 " "
3 ³ / ₄	3 ⁷ / ₈	1 ¹ / ₂	3 ⁷ / ₈	13 " "
7 ⁷ / ₈	1 ⁷ / ₁₆	1 ¹³ / ₁₆	1 ⁶ / ₁₆	11 ¹ / ₁₀ " "
7 ⁷ / ₈	1 ¹ / ₂	1 ³² / ₁₆	1 ² / ₁₆	11 ¹ / ₁₀ " "
1	1 ¹ / ₂	1 ⁷ / ₁₆	1 ¹ / ₂	10 ¹ / ₂ " "
1 ¹ / ₈	1 ⁹ / ₁₆	1 ⁶ / ₁₆	9 ⁹ / ₁₆	10 ³ / ₁₀ " "
1 ¹ / ₈	5 ⁷ / ₈	9 ⁹ / ₁₆	5 ⁷ / ₈	10 ¹ / ₁₀ " "
1 ¹ / ₄	5 ⁷ / ₈	1 ⁶ / ₁₆	5 ⁷ / ₈	9 ⁹ / ₁₆ " "
1 ¹ / ₄	3 ⁴	1 ⁹ / ₁₆	5 ⁷ / ₈	9 ¹ / ₁₀ " "
1 ³ / ₈	3 ⁴	1 ¹¹ / ₁₆ OR 2 ¹ / ₃₂	3 ⁴	9 ¹ / ₁₀ " "
1 ³ / ₈	3 ⁴	1 ¹¹ / ₁₆ OR 2 ¹ / ₃₂	3 ⁴	9 ¹ / ₁₀ " "
1 ¹ / ₂	7 ⁸	1 ¹¹ / ₁₆ OR 2 ¹ / ₃₂	3 ⁴	9 ¹ / ₁₀ " "
1 ⁵ / ₈	7 ⁸	1 ¹³ / ₁₆ OR 2 ² / ₃₂	7 ⁸	9 ¹ / ₁₀ " "
1 ⁵ / ₈	I	1 ¹³ / ₁₆ OR 2 ² / ₃₂	I	9 ¹ / ₁₀ " "
1 ³ / ₄	I	9 ⁹ / ₁₆ OR 7 ⁷ / ₁₆	I	9 ¹ / ₁₀ " "
1 ³ / ₄	1 ¹ / ₂	2 ²⁹ / ₁₆ OR 7 ⁷ / ₁₆	I	9 ¹ / ₁₀ " "
2	1 ¹ / ₂	1 ¹³ / ₁₆ OR I	1 ¹ / ₈	9 ¹ / ₁₀ " "
2 ¹ / ₄	1 ³ / ₈	I ¹ / ₁₆ OR I ¹ / ₈	1 ¹ / ₄	9 ⁸ / ₁₀ " "
2 ¹ / ₂	1 ³ / ₈	I ¹ / ₁₆ OR I ¹ / ₄	I ³ / ₈	9 ⁸ / ₁₀ " "
2 ³ / ₄	I ⁵ / ₈	I ¹ / ₁₆ OR I ³ / ₈	I ¹ / ₂	10 " "

WROUGHT IRON WASHERS.**Manufacturers' Standard List.**

Size of Bolt.	Width.	Hole.	Gauge.	Price per lb.
$\frac{3}{8}$	$\frac{9}{16}$	$\frac{1}{4}$	18	18.0
$\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{16}$	16	12.5
$\frac{5}{16}$	$\frac{7}{8}$	$\frac{3}{8}$	16	11.5
$\frac{3}{8}$	1	$\frac{7}{16}$	14	10.5
$\frac{7}{16}$	$1\frac{1}{4}$	$\frac{9}{16}$	14	9.5
$\frac{1}{2}$	$1\frac{3}{8}$	$\frac{1}{6}$	12	9.0
$\frac{9}{16}$	$1\frac{1}{2}$	$\frac{5}{8}$	12	8.5
$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{11}{16}$	10	8.5
$\frac{3}{4}$	2	$\frac{13}{16}$	10	8.5
$\frac{7}{8}$	$2\frac{1}{4}$	$\frac{15}{16}$	9	8.5
1	$2\frac{1}{2}$	$1\frac{1}{16}$	9	8.5
$1\frac{1}{8}$	$2\frac{3}{4}$	$1\frac{1}{4}$	9	8.5
$1\frac{1}{4}$	3	$1\frac{3}{8}$	9	8.5
$1\frac{3}{8}$	$3\frac{1}{4}$	$1\frac{1}{2}$	8	9.0
$1\frac{1}{2}$	$3\frac{1}{2}$	$1\frac{5}{8}$	8	9.0
$1\frac{5}{8}$	$3\frac{3}{4}$	$1\frac{3}{4}$	8	9.0
$1\frac{3}{4}$	4	$1\frac{7}{8}$	8	9.0
$1\frac{7}{8}$	$4\frac{1}{4}$	2	8	9.0
2	$4\frac{1}{2}$	$2\frac{1}{8}$	8	9.0

5 lbs. in a Box. Order by size of Bolt.

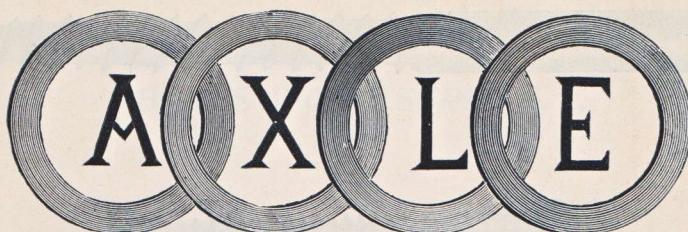
WROUGHT RIVETING BURRS.

For $\frac{3}{8}$ inch Bolt, $\frac{13}{64}$ inch Hole.....	Per lb., .24
For $\frac{1}{4}$ " " $\frac{17}{64}$ " "	" .20

SQUARE TAPPED NUTS.

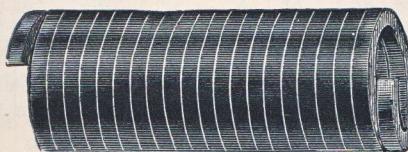
With Standard Carriage Bolt Thread.

For $\frac{1}{4}$ inch Bolt.....	Per lb., .15
" $\frac{5}{16}$ " "	" .13
" $\frac{1}{2}$ " "	" .12
" $\frac{7}{16}$ " "	" .11
" $\frac{9}{16}$ " "	" .10
" $\frac{5}{8}$ " "	" .09
" $\frac{3}{4}$ " "	" .08

LEATHER AXLE WASHERS.

SIZE OF AXLE.	NUT.				COLLAR.			
	No.	Inside.	Out-side.	Per 100.	No.	Inside.	Out-side.	Per 100.
$\frac{3}{4}$ Inch.....	1	$\frac{3}{4}$	1	\$ 1.75	42	$\frac{15}{16}$	$1\frac{5}{6}$	\$ 2.25
$\frac{7}{8}$ "	3	$\frac{3}{4}$	$1\frac{1}{8}$	1.75	55	1	$1\frac{7}{8}$	2.25
$\frac{7}{8}$ "	15	$\frac{13}{16}$	$1\frac{1}{8}$	1.75	68	$1\frac{1}{16}$	$1\frac{7}{8}$	2.25
1 "	28	$\frac{7}{8}$	$1\frac{3}{16}$	1.75	81	$1\frac{1}{8}$	$1\frac{1}{2}$	2.50
1 "	41	$1\frac{5}{16}$	$1\frac{1}{4}$	1.75	94	$1\frac{3}{16}$	$1\frac{1}{16}$	2.50
$1\frac{1}{8}$ "	55	1	$1\frac{3}{8}$	2.25	120	$1\frac{5}{16}$	$1\frac{1}{16}$	2.50
$1\frac{1}{8}$ "	68	$1\frac{1}{16}$	$1\frac{7}{16}$	2.25	133	$1\frac{3}{8}$	$1\frac{3}{4}$	2.50
$1\frac{3}{4}$ "	82	$1\frac{7}{8}$	$1\frac{9}{16}$	2.50	147	$1\frac{7}{16}$	$1\frac{1}{16}$	2.75
$1\frac{1}{4}$ "	94	$1\frac{3}{16}$	$1\frac{9}{16}$	2.50	174	$1\frac{9}{16}$	$2\frac{1}{8}$	3.50
$1\frac{3}{8}$ "	120	$1\frac{5}{16}$	$1\frac{11}{16}$	2.50	212	$1\frac{3}{4}$	$2\frac{9}{16}$	3.50
$1\frac{1}{2}$ "	147	$1\frac{7}{16}$	$1\frac{7}{8}$	2.75				

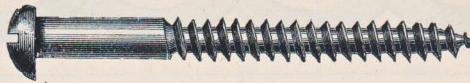
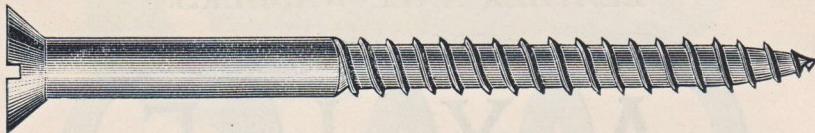
Packed 50 in a Box. Nut and Collars separate.

SPIRAL LEATHER AXLE WASHERS.**S-B SPIRAL AXLE WASHERS.**

1. They are made from best oak-tanned stock, durable and satisfactory.
2. They can be cut to fit any nut or collar, thereby saving trouble and expense and making them superior to all others.

Spiral Leather Washers, $1\frac{1}{8}$ -inch, per box, .50.

WOOD SCREWS.



Flat Head and Round Head, Bright Steel.

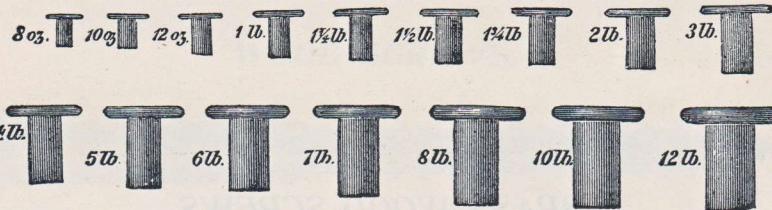
$\frac{1}{4}$ Inch.		$\frac{5}{8}$ Inch.		$\frac{7}{8}$ Inch.		$1\frac{1}{4}$ Inch.		$1\frac{3}{4}$ Inch.		$2\frac{1}{4}$ Inch.		No.	\$
No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	20	4.25
0	.40	1	.40	2	.41	5	.68	6	.92	10	1.45	22	5.00
I	.40	2	.40	3	.44	6	.74	7	.98	11	1.50	24	5.60
2	.40	3	.40	4	.48	7	.80	8	1.05	12	1.70		
3	.40	4	.40	5	.52	8	.87	9	1.10	13	1.90	3	Inch.
4	.40	5	.43	6	.59	9	.94	10	1.20	14	2.10	No.	\$
		6	.49	7	.66	10	1.00	11	1.30	15	2.35	12	2.45
		7	.56	8	.73	11	1.10	12	1.45	16	2.60	13	2.55
$\frac{3}{8}$ Inch.		8	.63	9	.80	12	1.20	13	1.65	17	2.80	14	2.65
No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	15	2.05
0	.40	10	.77	11	.94	14	1.55	15	2.05	20	3.60	16	3.30
I	.40	11	.84	12	1.00	15	1.75	16	2.25	22	4.20	17	3.65
2	.40	12	.91	13	1.15	16	1.95	17	2.45			18	4.05
3	.40	13	.98	14	1.30	17	2.15	18	2.70	$2\frac{1}{2}$ Inch.	20	4.80	
4	.40	14	1.10	15	1.50	18	2.35	20	3.20	No.	\$	22	5.55
5	.40			16	1.70	20	2.85	22	3.75	10	1.70	24	6.40
6	.41					24	4.35	11	1.75	26		7.50	
7	.48	$\frac{3}{4}$ Inch.		I Inch.						12	1.85		
8	.55	No.	\$	No.	\$	No.	\$	$1\frac{1}{2}$ Inch.	No.	13	2.05	$3\frac{1}{2}$ Inch.	
9	.62	2	.40	3	.51	4	.70	No.	14	2.25	No.	\$	
		3	.41	4	.55	5	.76	8	1.20	16	2.55	16	3.90
		4	.41	5	.59	6	.82	9	1.25	17	2.75	17	4.30
$\frac{1}{2}$ Inch.		5	.46	6	.66	7	.88	10	1.30	18	3.30	20	5.55
No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	3.00	4.75
0	.6	6	.53	7	.73	8	.94	11	1.40	20	3.85	22	6.35
I	.40	7	.60	8	.80	9	1.00	12	1.55	22	4.50	24	7.30
2	.40	8	.67	9	.87	9	1.00	10	1.10	13	1.80	24	5.10
3	.40	9	.74	10	.94	10	1.10	11	1.20	14	2.00		
4	.40	10	.81	11	1.00	11	1.20	12	1.30	18			
5	.41	11	.88	12	1.10	12	1.30	15	2.20	$2\frac{3}{4}$ Inch.	4	Inch.	
6	.45	12	.95	13	1.25	13	1.50	16	2.40	No.	\$	No.	\$
7	.52	13	1.05	14	1.40	14	1.70	17	2.60	13	2.25	16	4.75
8	.59	14	1.20	15	1.60	15	1.90	18	2.90	14	2.45	18	5.60
9	.66	15	1.35	16	1.80	16	2.10	20	3.40	15	2.70	20	6.40
10	.73	16	1.55	17	2.00	17	2.30	22	4.00	16	2.95	22	7.30
11	.80			18	2.20	18	2.50			17	3.25	24	8.40
12	.87			20	2.70	20	3.00			18	3.60	26	9.70

The above list is applied to Flat Head Bright Screws, Round Head Bright Screws, Flat Head Japanned Screws, Round Head Japanned Screws, Flat Head Blued Screws, Round Head Blued Screws.

BRASS WOOD SCREWS.**Flat Head Brass and Round Head Brass.**

$\frac{3}{8}$ Inch.	$\frac{5}{8}$ Inch.	No.	\$	No.	\$	$1\frac{1}{4}$ Inch.	No.	\$	No.	\$	$1\frac{3}{4}$ Inch.	No.	\$	No.	\$
No. \$	No. \$	10	2.40	15	4.55	No. \$	9	3.45	17	9.50	No. \$	10	3.95	18	10.45
0 .80	2 .91	11	2.65	16	5.05	4	2.10	11	4.45	20	12.40				
I .82	3 .90	12	3.00			5	2.15	12	5.00	22	14.50				
2 .86	4 1.06	13	3.35			6	2.20	13	5.60	24	16.85				
3 .89	5 1.20	14	3.70	No. \$	7	2.25	14	6.25							
4 .95	6 1.30	15	4.10	3	1.55	8	2.65	15	6.90	No. \$	16	7.60	No. \$	6	4.80
5 1.03	7 1.50	16	4.50	4	1.00	9	3.00	16							
6 1.10	8 1.70			5	1.65	10	3.25	17	8.35						
7 1.20	9 1.90	No. \$	6	1.70	11	3.85	18	9.15	7	4.85					
	10 2.15	No. \$	7	1.95	12	4.35	20	10.85	8	4.90					
	11 2.40	2	1.35	8	2.30	13	4.85								9 4.95
$\frac{1}{2}$ Inch.	12 2.65	3	1.40	9	2.00	14	5.35	$1\frac{3}{4}$ Inch.	No. \$	10	5.00	No. \$	11	5.65	
No. \$		4	1.45	10	2.95	15	5.95								
1 .86	$\frac{3}{4}$ Inch.	5	1.50	11	3.30	16	6.55	7	3.80	12	6.40				
2 .89	No. \$	6	1.55	12	3.65	17	7.20	8	3.85	13	7.15				
3 .93	2 1.06	7	1.80	13	4.10	18	7.85	9	3.90	14	7.95				
4 1.03	3 1.10	8	2.05	14	4.55	20	9.35	10	4.45	15	8.80				
5 1.10	4 1.15	9	2.35	15	5.00			11	5.05	16	9.75				
6 1.20	5 1.30	10	2.65	16	5.55	$1\frac{1}{2}$ Inch.	12	5.70	17	10.70					
7 1.30	6 1.45	11	2.95	17	6.65	No. \$	13	6.35	18	11.70					
8 1.50	7 1.60	12	3.35			6	2.95	14	7.10	20	13.90				
9 1.70	8 1.90	13	3.70			7	3.00	15	7.90	22	16.30				
10 1.90	9 2.15	14	4.10			8	3.05	16	8.65						

The above list is applied to Flat Head Brass Screws, Round Head Bright Screws, and Oval Head Brass Screws.

FLAT HEAD NORWAY IRON RIVETS.**For Coopers and Tinners.**

Packages of 1000.

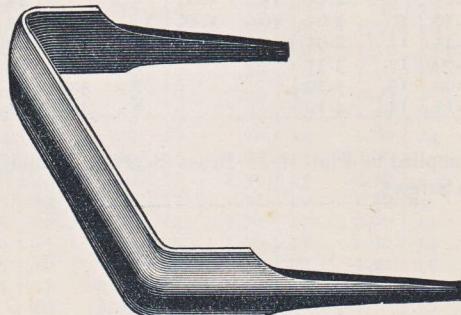
Ounces, per 1000.....	8	10	12					
Black	\$.20	\$.22	\$.24					
Tinned .....	.24	.25	.28				
Pounds, per 1000.....	1	1 ¼	1 ½					
Black	\$.27	\$.29	\$.33					
Tinned .....	.33	.37	.42				
Pounds, per 1000.....	5	6	7	8	9	10	12	14
Black90	1.08	1.26	1.44	1.53	1.75	1.90	2.30
Tinned	1.20	1.44	1.68	1.92				

**SECTION RIVETS.**

Countersunk Heads, No. 6, $\frac{3}{8}$ to $1\frac{1}{4}$ inches, 1-lb. packages	Per lb., .15
" " No. 5, $\frac{3}{8}$ to $1\frac{1}{4}$ " 1-lb. "	" .15

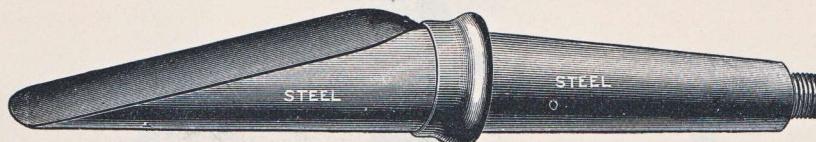
**HAME RIVETS.**

Polished, No. 7, $\frac{7}{8}$ and 1 inch, packed 1 pound in a box	Per pound, .15
--------------------------------------------------------------------------	----------------

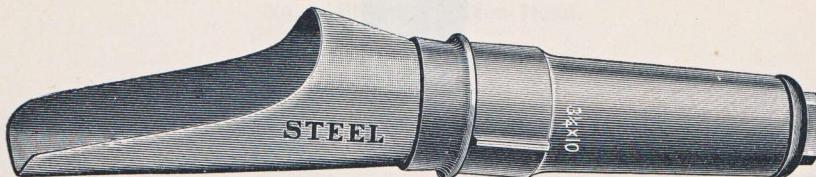
**WAGON BOX STAPLES.**

To Drive, $1\frac{1}{2}$, $1\frac{3}{4}$ and 2-inch.....	Per Gross, \$2.00
-----------------------------------------------------------	-------------------

One-Half Gross in a Box.

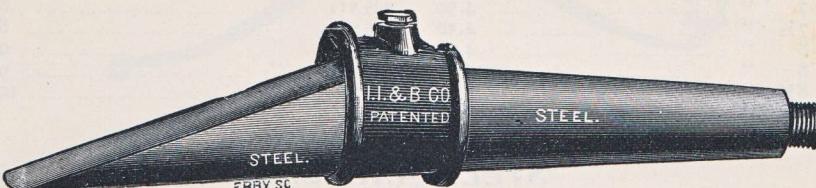
STEEL WAGON SKEINS.**STANDARD.**

The Standard Steel Skeins are thoroughly welded, smooth and uniform in size, and only the best material is used in their manufacture.

**CHAMPION.**

The Champion Steel Skeins are thoroughly welded from point of arm to end of sleeve, which is enlarged and extends back of collar as shown in cut, to receive the entire axle, thereby strengthening it very materially and making it impossible for water, grease or dirt to enter between the Skein and axle.

The threaded portion of the Skein is made of wrought iron thoroughly welded to the steel.

**I. I. & B. CO.**

These Skeins are of uniform taper, true to size and interchangeable.

The I. I. & B. Co.'s Patent Steel Skeins are giving general satisfaction.

The sleeves of these Skeins having the same shape, uniformity and smoothness of cast iron Skeins, they can be fitted to the axletrees with the same machine as is used in fitting the cast Skeins, and with no additional labor.

PRICE LIST.

Size.	Gauge of Steel.	Price per set.	Size.	Gauge of Steel.	Price per set.	Size.	Gauge of Steel.	Price per set.
2 1/4 x 7	No. 11	\$ 5.60	3 x 10	No. 10	\$ 6.70	3 1/2 x 12	No. 9	\$ 9.00
2 1/4 x 7 1/2	" 11	5.60	3 1/4 x 9	" 9	7.40	3 3/4 x 11	" 8	10.00
2 1/2 x 7 1/2	" 11	5.70	3 1/4 x 10	" 9	7.50	3 3/4 x 12	" 8	10.00
2 1/2 x 8	" 11	5.80	3 1/4 x 11	" 9	7.60	4 x 12	" 7	12.00
2 3/4 x 8	" 10	6.10	3 1/2 x 10	" 9	8.30	4 1/4 x 12	" 7	13.00
2 3/4 x 8 1/2	" 10	6.20	3 1/2 x 10 1/2	" 9	8.40	4 1/2 x 12	" 6	17.00
2 3/4 x 9	" 10	6.30	3 1/2 x 11	" 9	8.50	4 1/2 x 13	" 6	18.00
3 x 9	" 10	6.50						

Standard Steel Skeins, Discount Per Cent.

Champion Steel Skeins, Discount Per Cent.

I. I. & B. Co.'s Steel Skeins, Discount Per Cent.

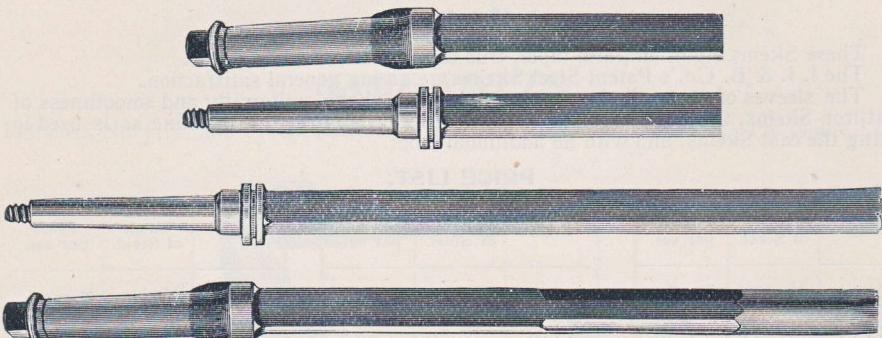
Self Oilers 25c. per set extra.

Orput Draft Lugs 15c. " "

Ulrich Truss Lugs 25c. " "

THIMBLE SKEINS.

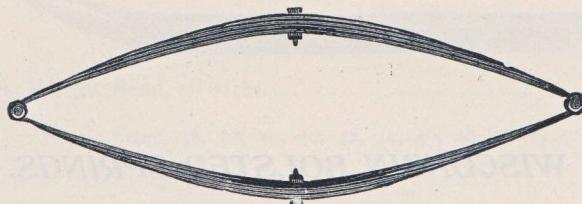
SIZE.	PER SET.	SIZE.	PER SET.
2 x 6 inches	\$ 3.25	3 x 9 inches	\$ 6.00
2 x 6½ "	3.25	3½ x 9 "	7.00
2½ x 6½ "	3.50	3 x 10 "	6.50
2¼ x 7 "	3.75	3¼ x 10 "	7.50
2¼ x 7½ "	4.00	3¼ x 11 "	7.75
2¾ x 7 "	4.00	3½ x 10 "	8.00
2¾ x 7½ "	4.00	3½ x 10½ "	8.00
2½ x 7 "	4.50	3½ x 11 "	8.30
2½ x 7½ "	4.50	3½ x 12 "	8.80
2½ x 8 "	4.75	3¾ x 11 "	9.00
2¾ x 8 "	5.25	3¾ x 12 "	9.40
2¾ x 8½ "	5.40	4 x 12 "	10.00
2¾ x 9 "	6.00		

STEEL AXLES.**Half Patent, Double Collars.**

No.	Swell Shoulder	¾ to ⅝	1	1⅛	1¼	1⅜	1½	1⅝	1⅓	2
11	Long Arm	\$ 5.50	\$ 6.00	\$ 6.50	\$ 8.00	\$ 12.00	\$ 15.00	\$ 18.00	\$ 23.00	\$ 33.00
12	Short Arm	4.25	4.75	5.00	6.00	0.50	12.50	15.50	20.00	26.00

EXTRA FOR COACHING.

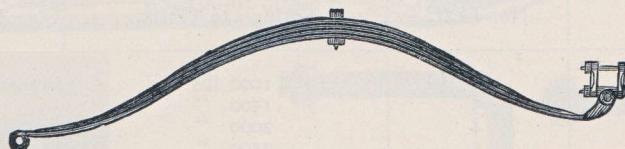
¾ to 1¼	per set, \$.15 net.
1⅓ to 1½	" .30 "
1⅔ up	" 1.00 "

SPRINGS.

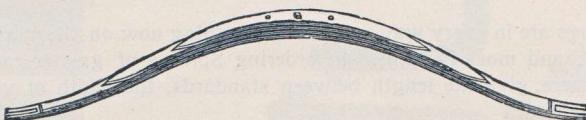
No. 5 Elliptic, Button Head.



Platform Cross Spring.



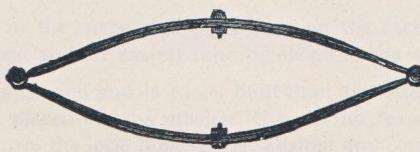
Platform Side Spring.



Half Spring.

ELLIPTIC, PLATFORM AND HALF SPRINGS.

Bright, $1\frac{1}{4}$ and $1\frac{3}{8}$ inch	Per lb., .07 $\frac{1}{2}$
" $1\frac{1}{2}$ and wider	.07

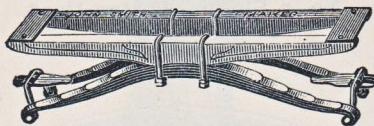


Seat Springs.

Oil Temper, Painted Red.

$1\frac{1}{2}$ inch x 2 leaf x 26 inch	Per pair, .70
$1\frac{1}{2}$ " x 3 " x 28 "	.125

WISCONSIN BOLSTER SPRINGS.



Springs to carry over 8000 pounds furnished on short notice.

Width.	No. Leaf.	Springs to Carry.	Per Set.
1 $\frac{1}{4}$	4	1000 lbs.	\$10.00
1 $\frac{1}{2}$	5	1500 "	11.00
1 $\frac{3}{4}$	4	2000 "	12.00
1 $\frac{3}{4}$	5	2500 "	13.00
2	5	3000 "	13.50
2	6	4000 "	14.00
2	7	5000 "	15.00
2 $\frac{1}{2}$	8	8000 "	25.00

These Springs are in every way superior to anything now on the market. They are the most Elastic and most Durable. In ordering Springs of greater carrying capacity than are listed here, give the length between standards, the width of your bolster and thickness of standard.

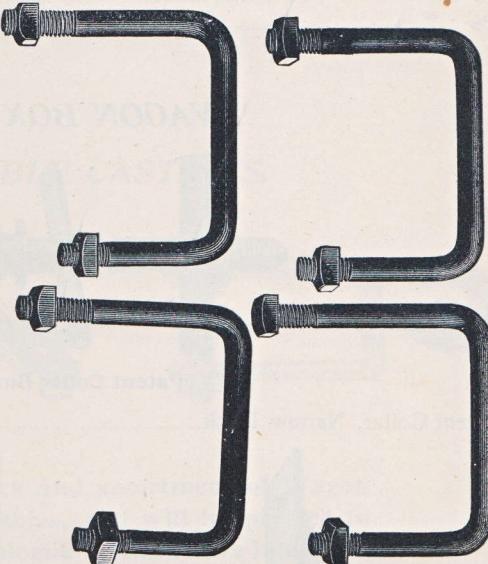
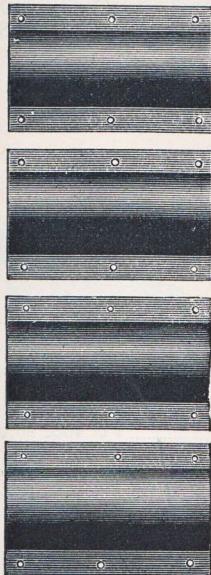
RUBBER WAGON SPRINGS.

1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 1 $\frac{3}{4}$ and 2 inches thick..... Per lb., .25

CAST BOB SHOES.

Cast Bob Shoes, Wright Bend, all sizes Per lb., .02

Stock Sizes, 36, 38, 39, 40, 42, 44, 46, 48 inches.

THE MANDT STEEL OSCILLATING BOB KNEE.

Eclipses anything in the shape of a Steel Knee on the face of the earth. It makes the lightest, the strongest and the easiest running sleigh in the world.

It is simple in construction and is easier built than any other sleigh, and at the price that the Steel Knee is placed on the masket, there is no reason why a blacksmith or wagon shop cannot control the local home trade, against any competition from abroad.

A set consists of four Steel Knees, four Staples or Hinges and four Plates for Beam.

Mandt's Steel Oscillating Bob Knees Per set, \$3.00

WAGON HARDWARE.

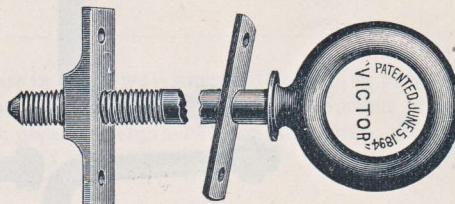
WAGON BOX STRAP BOLTS.

Size.	Per Set of Eight Bolts.	List.
$\frac{1}{6} \times 10$ inches	Per set, \$.80
$\frac{1}{2} \times 12$ "	" .85
$\frac{1}{6} \times 10$ "	" .85
$\frac{1}{6} \times 12$ "	" .95
$\frac{1}{6} \times 14$ "	" 1.05
$\frac{5}{8} \times 12$ "	" 1.15
$\frac{5}{8} \times 14$ "	" 1.30
$\frac{5}{8} \times 16$ "	" 1.45

WROUGHT IRON BOLSTER PLATES.

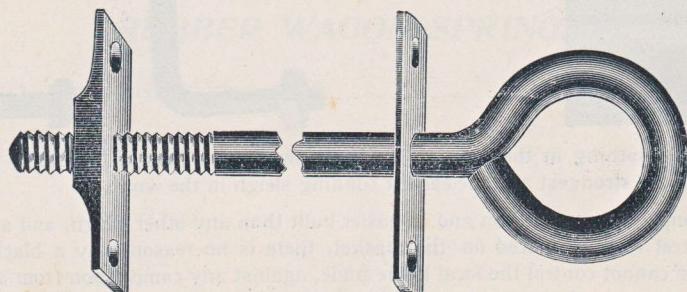
$2\frac{3}{4}$ inches in width	.....	Per pair, \$.65
3 "	.....	" .70
$3\frac{1}{4}$ "	.....	" .75
$3\frac{1}{2}$ "	.....	" .80

WAGON BOX RODS.



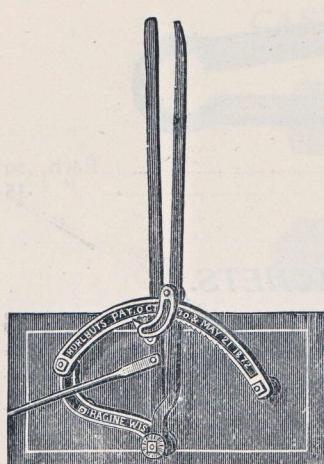
Patent Collar Box Rods.

Patent Collar, Narrow Track Per 100, \$8.00

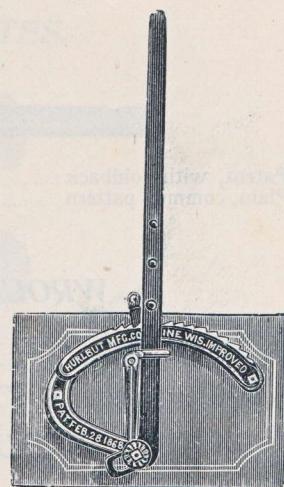


Common Box Rods.

Common Collar, Narrow Track Per 100, \$7.00

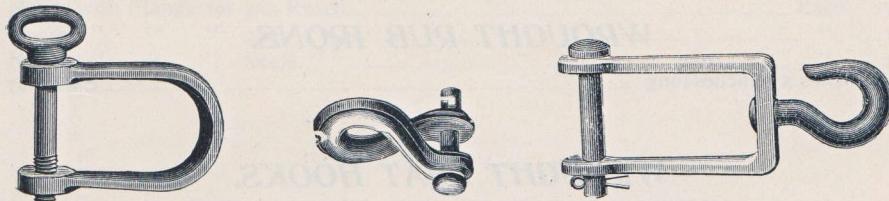
HURLBUT WAGON BRAKE LOCKS.

Double Lever Lock.



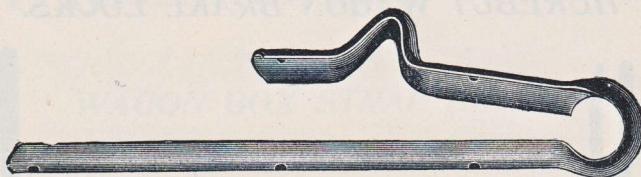
Single Lever Lock.

Hurlbut's Double Lever Brake Locks	Each, .75
" Single " " " "	" .75

MALLEABLE CASTINGS.

We have a large stock and assortment of Wagon and Carriage Malleables, and will be pleased to send Illustrated Catalogue of the entire line upon application.

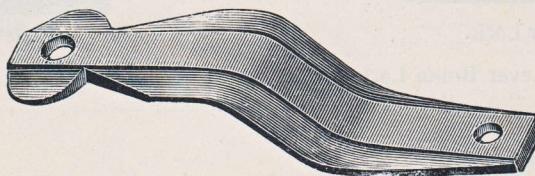
Common Malleables .....	.07
Carriage Malleables .....	.07
Wagon Malleables .....	.07
Clevises .....	.06
Long Shank Steps .....	.08
Core Castings .....	.08

WROUGHT POLE CAPS.

Patent, with holdback	Each, .20
Plain, common pattern	" .15

WROUGHT BRAKE RATCHETS.

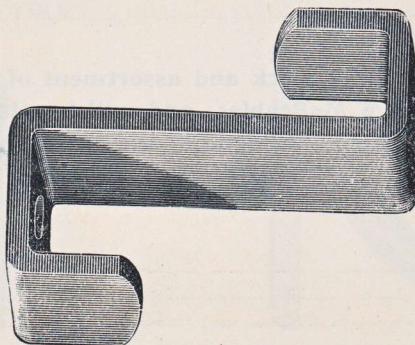
Patent, with guard	Each, .30
Plain, without guard	" .15

WROUGHT HAMMER STRAPS.

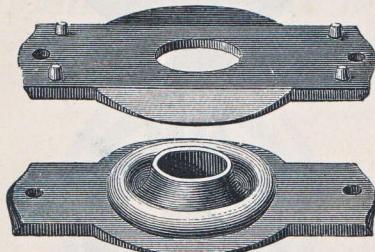
Light Pattern	Each, .09
Heavy "	" .10

WROUGHT RUB IRONS.

2½ inches x 5 inches long	Each, .07
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WROUGHT SEAT HOOKS.

No. 7, 2½ inches long, inside measure	Per lb., .07
No. 8, 3 " " " "	" .07

CAST BOLSTER PLATES.

Improved.

No. 1, 10 inches long, weight 8½ lbs	Per pair, .35
No. 2, 10¾ " " " 11½ "	" .45

CAST REACH PLATES.

No. 1, with Flange for 2x3 Reach.....	Each, .30
No. 2, " " " 2x4 "	" .35
No. 3, " " " 2x4½ "	" .40

WROUGHT COUPLING PLATES.

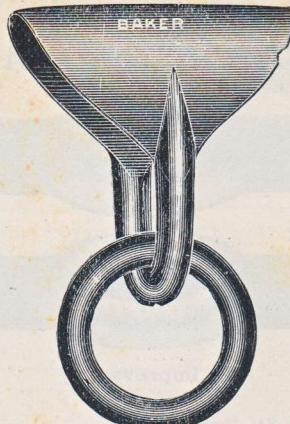
Per pair45
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WROUGHT STEEL FELLOE PLATES.

Plates for $\frac{7}{8}$ to $1\frac{3}{4}$ inch Rims.....	Per lb., .10
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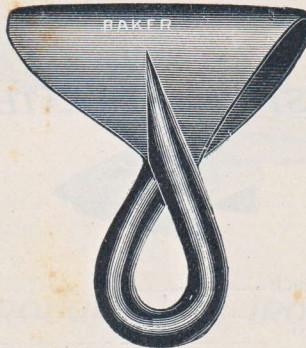
WROUGHT SINGLE TREE IRONS.

Center Clips.



With Ring.

$\frac{9}{16}$ inch, with Ring, welded.....	Each, .08
$\frac{5}{8}$ " " " "	" .09

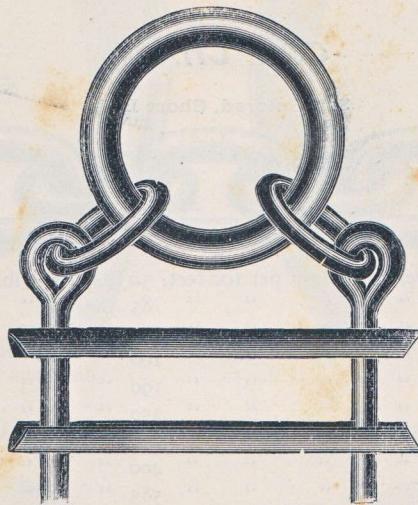


Twisted.

$\frac{9}{16}$ inch Twisted, welded.....	Each, .07
$\frac{5}{8}$ " " " "	" .08
$\frac{9}{16}$ " Flat, straight.....	" .06
$\frac{5}{8}$ " " " "	" .07

FERRULES AND HOOKS.

$1\frac{1}{4}$ inch Ferrule, $\frac{3}{8}$ Iron Hook.....	Each, .06
$1\frac{3}{8}$ " " $\frac{3}{8}$ " " "	" .06

WROUGHT NECKYOKES IRONS.

Neckyoke Center Irons.

1²₆ Ring with Hooks and Plates Each, .20

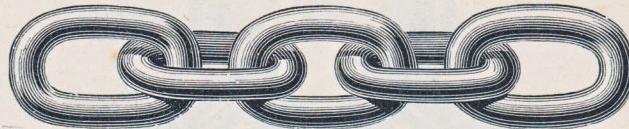
FERRULES AND RINGS.

1³₈ inch Ferrule with large Ring Each, .06



COIL CHAIN.

Self-Colored, Short Link.



$\frac{1}{6}$ inch, average weight per 100 feet, 50 lbs.,	Per lb.,	.13
$\frac{1}{4}$ " " " " 85 "	"	.10
$\frac{5}{16}$ " " " " 120 "	"	.09
$\frac{3}{8}$ " " " " 160 "	"	.08
$\frac{7}{16}$ " " " " 190 "	"	.07 $\frac{1}{2}$
$\frac{1}{2}$ " " " " 250 "	"	.07 $\frac{1}{2}$
$\frac{9}{16}$ " " " " 320 "	"	.07 $\frac{1}{4}$
$\frac{5}{8}$ " " " " 400 "	"	.07
$\frac{3}{4}$ " " " " 585 "	"	.07

LOG CHAIN.

With Two Hooks and Swivel.

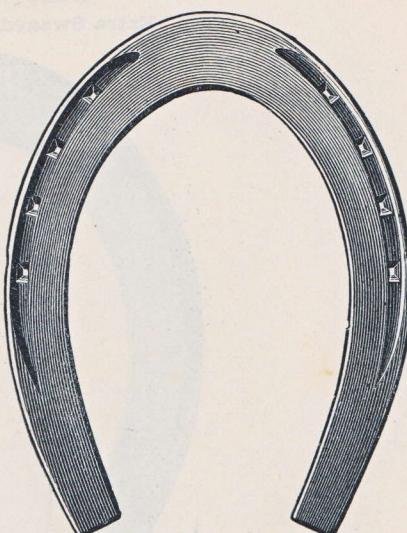
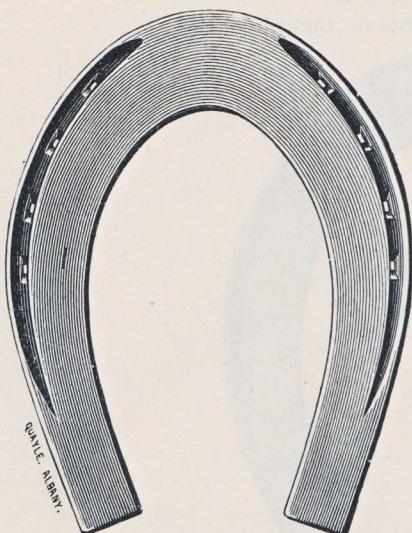
$\frac{1}{4}$ inch, 10, 12 or 14 foot	Per lb.,	.11
$\frac{5}{16}$ " 10, 12 or 14 "	"	.10
$\frac{3}{8}$ " 10, 12 or 14 "	"	.09

STEEL HARROW TEETH.

Square Steel, $\frac{1}{2} \times 9$, not headed Per lb., .03 $\frac{1}{2}$

BURDEN'S IRON HORSE SHOES--Light and Medium.

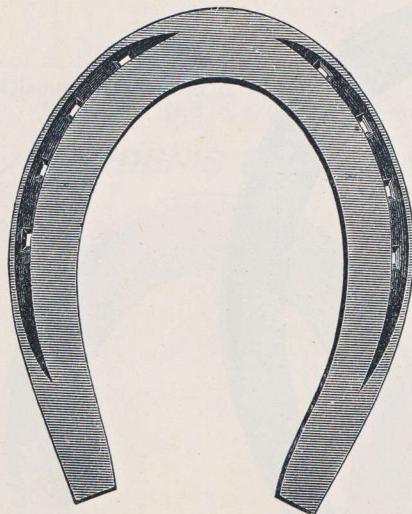
Packed in Kegs containing Single or Assorted Sizes.



Burden Light Front.

Sizes, Nos. 1 to 7, front and hind Per keg, \$5.00

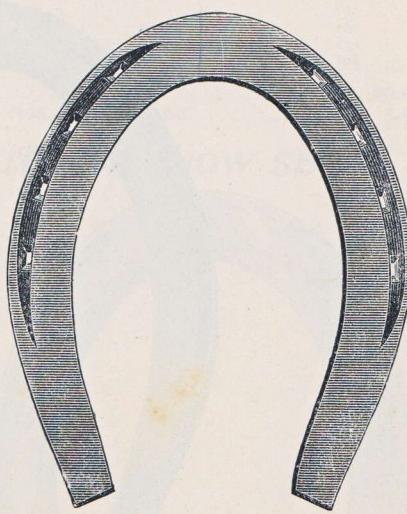
Burden Light Hind.

PHœNIX IRON HORSE SHOES--Light and Medium.

Phœnix Light Front.

WEIGHT OF EACH SHOE.

Front Size.	Light.	Medium.
No. 1.	14 oz.	1 lb., 1 oz.
" 2.	1 lb., 1 oz.	1 lb., 4 oz.
" 3.	1 lb., 5 oz.	1 lb., 9 oz.
" 4.	1 lb., 9 oz.	1 lb., 13 oz.
" 5.	1 lb., 14 oz.	2 lb., 3 oz.
" 6.	2 lb., 4 oz.	2 lb., 10 oz.



Phœnix Light Hind.

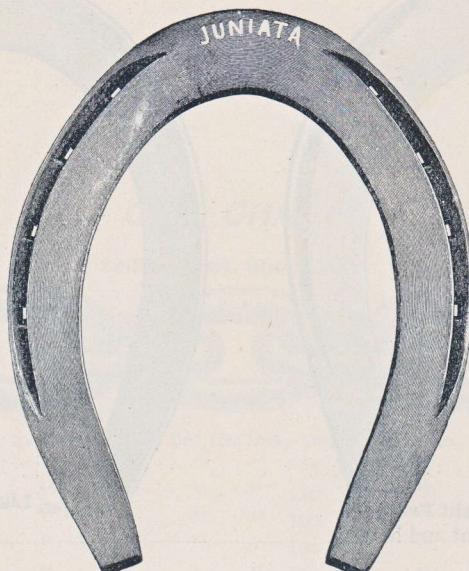
WEIGHT OF EACH SHOE.

Hind Size.	Light.	Medium.
No. 1.	12 oz.	14 oz.
" 2.	14 oz.	1 lb., 0 oz.
" 3.	1 lb., 2 oz.	1 lb., 4 oz.
" 4.	1 lb., 6 oz.	1 lb., 8 oz.
" 5.	1 lb., 11 oz.	1 lb., 13 oz.
" 6.	1 lb., 15 oz.	2 lb., 2 oz.

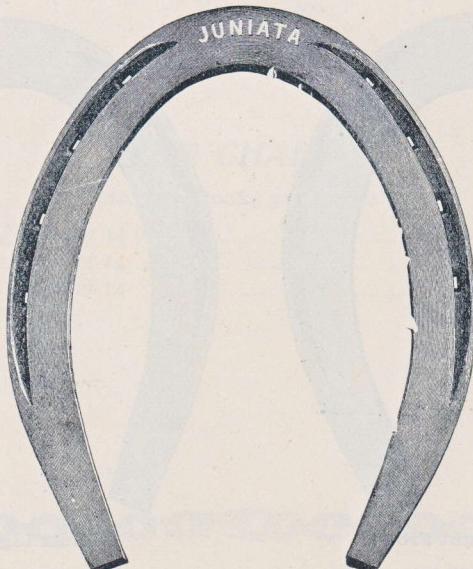
Phœnix, Nos. 1 to 6, front and hind Per keg, \$5.00

SHOENBERGER'S STEEL HORSE SHOES.

Extra Swaged. Soft Steel. Light.



Shoenberger's Light Front.

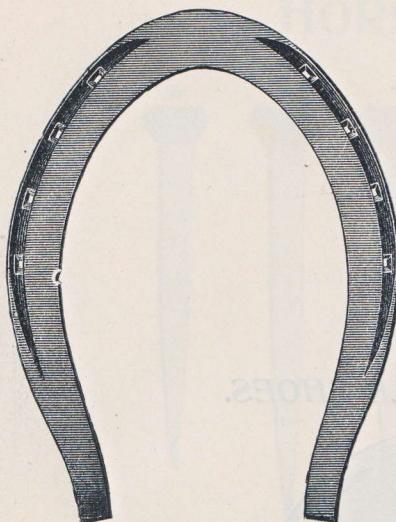


Shoenberger's Light Hind.

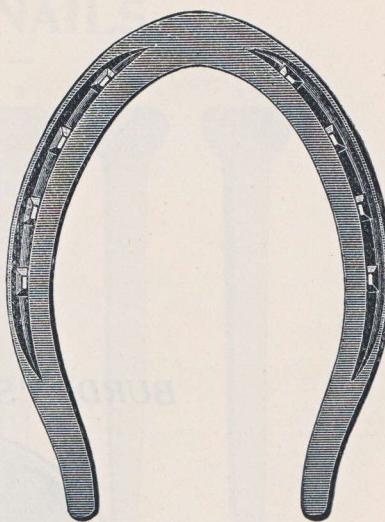
No. 1 Front	12½ ounces.	No. 1 Hind	10 ounces.
2 "	15½ "	2 "	12½ "
3 "	18½ "	3 "	16 "
4 "	23½ "	4 "	20 "
5 "	27½ "	5 "	25 "
6 "	33½ "	6 "	30 "

Shoenberger's Steel, Nos. 1 to 6, front and hind..... Per keg, \$5.00

DIAMOND STATE HORSE SHOES.
EXTRA LIGHT STEEL.



Extra Light Steel Front.



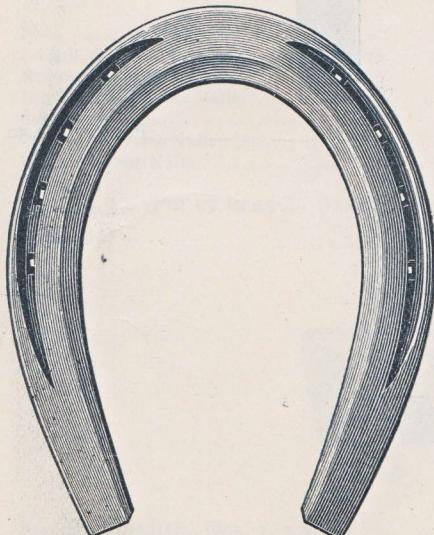
Extra Light Steel Hind.

Size.	Weight of Each Front Shoe.	Average Number in Each Keg.
No. o.	10 ounces.	160
" 1.	12 "	133
" 2.	14 "	114
" 3.	17 "	94
" 4.	20 "	80

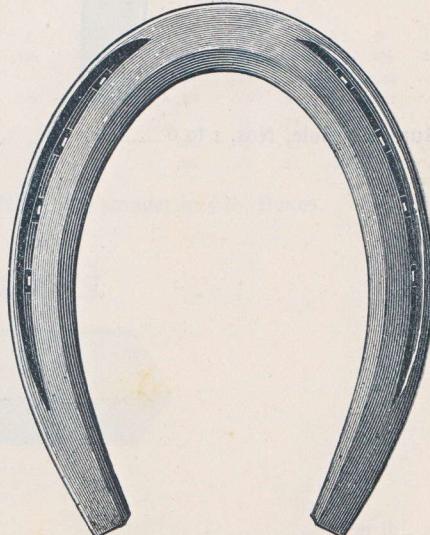
Size.	Weight of Each Hind Shoe.	Average Number in Each Keg.
No. o.	8 ounces.	200
" 1.	9 "	177
" 2.	10 "	160
" 3.	12 "	133
" 4.	15 "	106

Diamond State, Nos. o, 1 and 2 Hind Per keg, \$6.00
 " " Nos. o, 1, 2, 3 and 4 Front and Nos. 3 and 4 Hind " 5.50

BURDEN'S EASY ROADSTER OR SNOW SHOE.



Burden Easy Front.



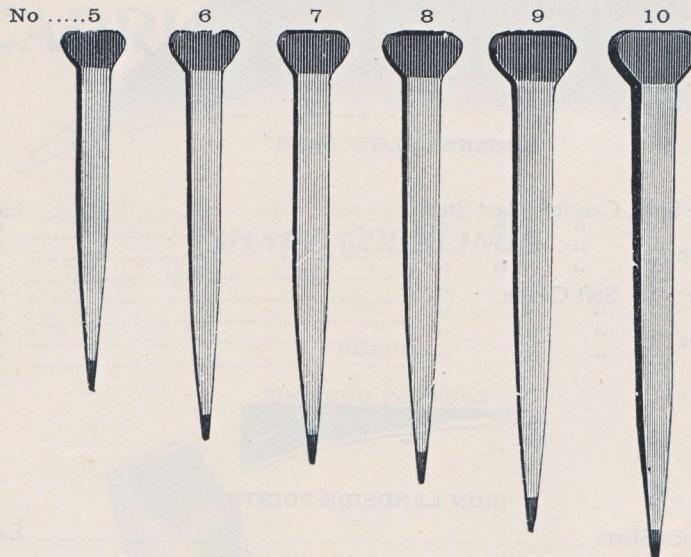
Burden Easy Hind.

Sizes, Nos. 1 to 6, Front and Hind Per keg, \$4.00

BURDEN'S MULE SHOES.

Burden's Mule, Nos. 1 to 6..... Per keg, \$4.50

HORSE NAILS.



Nutwood Horse Nails are the Best and Cheapest.

Have you had them? If not, we can prove to your satisfaction that they are the best material, the best driving, the best Horse Nails, for anything like the money, in the market. We ask you to order a sample box, and if your experience does not commend them, you may return them at our expense.

ORDER THE NUTWOOD HORSE NAILS.

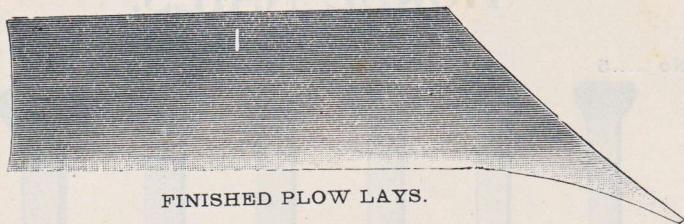
Nos.....	2	3	4	4½	5	6	7	8	9	10
Length..... Inches.	1½	1¾	1½	1¾	2	2½	2¼	2¾	2½	2¾
Nutwood Horse Nails..... Per lb.					.28	.27	.26	.25	.24	.23
Northwestern Horse Nails..... "	2.00	1.00	.50	.35	.28	.25	.23	.22	.21	.20
Star Horse Nails..... "					.23	.21	.20	.19	.18	
"C. B. K." Horse Nails..... "					.28	.25	.23	.22	.21	.20
Putnam Horse Nails..... "					.26	.23	.21	.20	.19	.18

Put up in 25-lb. Boxes, except No. 5 and smaller in 5-lb. Boxes.

TOE CALKS.

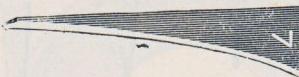


Sweet's Swedish, Nos. 1, 2 and 3	Per lb., .13
Sweet's American, Nos. 1, 2 and 3	" .11
Sweet's Bessemer, Nos. 1, 2 and 3	" .09
Gautier's American, Nos. 1, 2 and 3	" .08

PLOW LAYS, ETC.

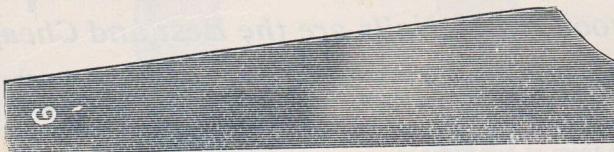
FINISHED PLOW LAYS.

14-inch Single Shin, Crucible Cast Steel.....	Each, .85
16-inch " " " "	" 1.00
14-inch Double " " " "	" 1.17
16-inch " " " "	" 1.35
14-inch Single " Soft Center " "	" 1.22
16-inch " " " "	" 1.35
14-inch Double " " " "	" 1.47
16-inch " " " "	" 1.65



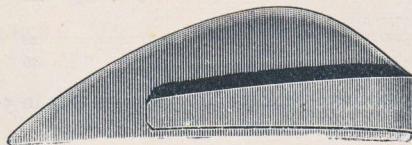
IRON LANDSIDE POINTS.

For 14 or 16-inch Share	Each, .15
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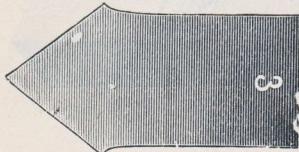
STEEL LANDSIDES.

14-inch Crucible Steel	Each, .50
16-inch " " "	" .60
14-inch Soft Center Steel	" .85
16-inch " " "	" .95



IDEAL PLOW POINTS.

No. 1 Small, ready to weld on	Per dozen, .70
No. 2 Large, " " "	" .85



CULTIVATOR SHOVELS--NO HOLES.

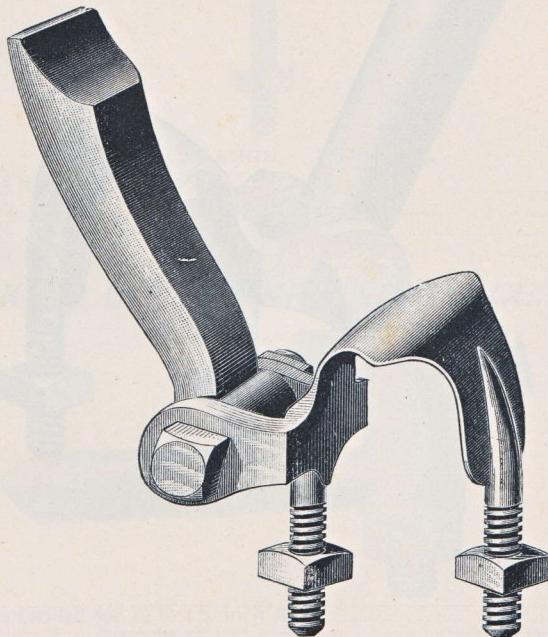
Crucible Steel	Each, .40
Soft Center Steel	" .55

CARRIAGE HARDWARE.

SHAFT COUPLINGS.

BLACK.

FINISHED PATTERN.



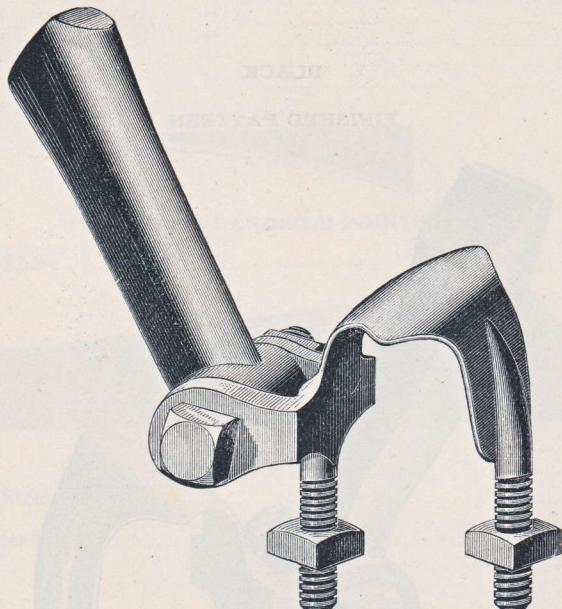
MADE OF BEST NORWAY IRON.

Size.	Diameter of Bolt.	Per Dozen Pair.
$\frac{7}{8}$ inch.	$\frac{5}{6}$ Bolt.	\$ 6.50
1 "	$\frac{3}{8}$ "	7.00
$1\frac{1}{8}$ "	$\frac{7}{16}$ "	8.50
$1\frac{1}{4}$ "	$\frac{7}{16}$ "	12.00
$1\frac{1}{2}$ "	$\frac{7}{16}$ "	16.00

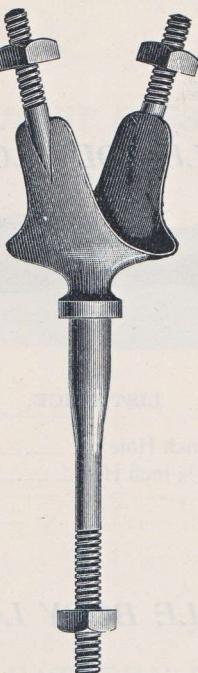
POLE COUPLINGS.

BLACK.

FINISHED PATTERN.

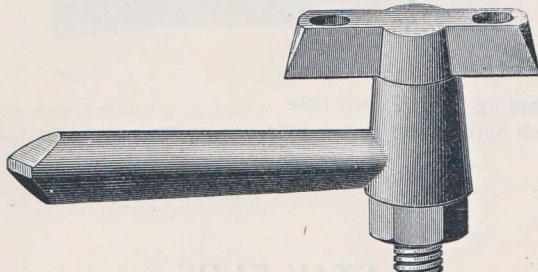


Size.	Per Dozen Pair.
5/8 inch	\$ 7.00
1 "	7.50
1 1/8 "	9.00
1 1/4 "	12.00
1 1/2 "	16.00

CLIP KING BOLTS.

WITH FLANGE. FINISHED.

No. 1, Finished, $\frac{1}{2}$ inch at Collar	Per dozen, \$4.00
No. 2, " $\frac{9}{16}$ " " "	" 4.50
No. 3, " $\frac{5}{8}$ " " "	" 5.50
No. 4, " $\frac{3}{4}$ " " "	" 6.50

KING BOLT YOKE AND BRACE.

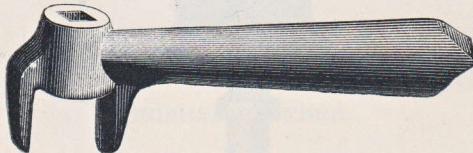
No. 1 Light, Holes Drilled for $\frac{5}{8}$ to $1\frac{1}{4}$ inch Axle	Per dozen, \$3.00
No. 2 Heavy, " " " 1 to $1\frac{1}{2}$ " "	" 4.00

WROUGHT IRON CLIP YOKES.

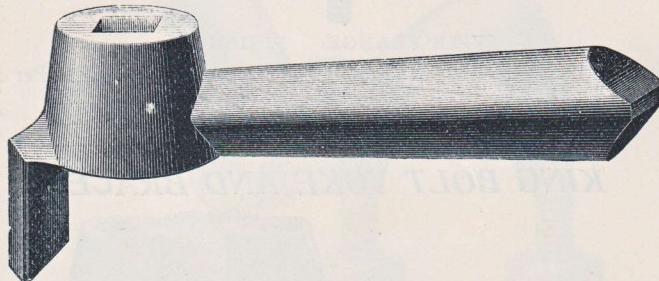
Bevel Corners.



For $\frac{5}{8}$ inch Clips—Distance between Holes, $\frac{7}{8}$, 1 , $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ inches.....	Per lb., .10
For $\frac{3}{4}$ inch Clips—Distance " " " $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ inches.....	" .10

DOUBLE BODY LOOPS.**LIST PRICE.**

For $\frac{5}{8}$ and 1 inch Spring Bar, $\frac{5}{16}$ inch Hole	Per dozen, \$1.80
For $1\frac{1}{8}$ and $1\frac{1}{4}$ inch Spring Bar, $\frac{3}{8}$ inch Hole	" 2.00

SINGLE BODY LOOPS.

For $\frac{5}{8}$ and 1 inch Spring Bar, $\frac{5}{16}$ inch hole	Per dozen, \$1.50
For $1\frac{1}{8}$ and $1\frac{1}{4}$ inch Spring Bar, $\frac{3}{8}$ inch hole	" 1.70

STAY ENDS.

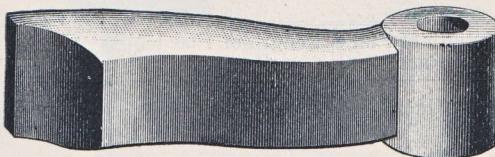
No. 1, Norway Iron, for $\frac{7}{16}$ inch Stay	Per dozen, \$2.50
No. 1, " " for $\frac{1}{2}$ " "	" 2.75

OFFSETS.

No. 2, Norway Iron, for $\frac{7}{16}$ inch Stay	Per dozen, \$1.80
No. 2, " " for $\frac{1}{2}$ " "	" 2.00
No. 2, " " for $\frac{9}{16}$ " "	" 2.20

SHAFT EYES.

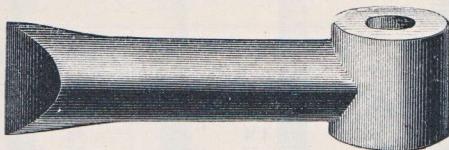
BLACK.



$\frac{5}{8}$ inch for $\frac{5}{16}$ inch Bolt	Per dozen pair, \$3.50
1 " " for $\frac{3}{8}$ or $\frac{7}{16}$ inch Bolt.....	" 4.00
$1\frac{1}{8}$ " for $\frac{7}{16}$ inch Bolt	" 4.50
$1\frac{1}{4}$ " for $\frac{7}{16}$ " "	" 5.50
$1\frac{1}{2}$ " for $\frac{7}{16}$ " "	" 7.00

REVERSED PATTERN POLE EYES.

BLACK.



No. 331, 1 inch.....	Per dozen pair, \$5.00
No. 332, $1\frac{1}{8}$ "	" 5.50
No. 333, $1\frac{1}{4}$ "	" 7.00
No. 334, $1\frac{1}{2}$ "	" 8.00

REACH OR PERCH PLATES.

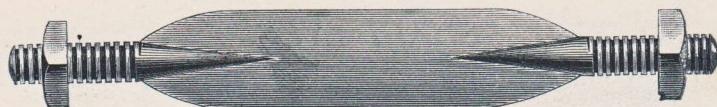
FOR SINGLE REACH.

No. 1, for $1\frac{1}{4}$ inch Spring and No. 1 King Bolt	Per dozen, \$7.50
No. 2, for $1\frac{1}{4}$ " " " No. 2 " "	" 7.50
No. 3, for $1\frac{1}{8}$ " " " No. 2 " "	" 7.50
No. 4, for $1\frac{1}{2}$ " " " No. 3 " "	" 7.50

For Double Reach, same price.

SUPERIOR AXLE CLIPS.

MADE OF NORWAY IRON.

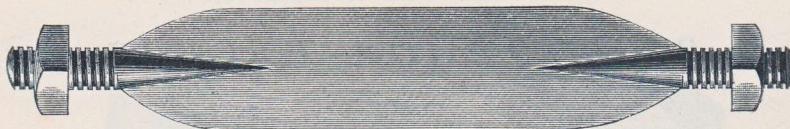


No.	Width of Flat Part.	Length of Flat Part.	Size of Shank.	Price per dozen.
00.	7/8 inch.	2 1/2 inches.	5/16 inch.	\$ 0.70
0.	7/8 "	2 3/4 "	5/16 "	0.70
1.	7/8 "	3 1/4 "	5/16 "	0.70
2.	7/8 "	3 3/4 "	5/16 "	0.75
3.	7/8 "	4 1/4 "	5/16 "	0.80
4.	7/8 "	4 3/4 "	5/16 "	1.00
5.	7/8 "	5 1/4 "	5/16 "	1.10
6.	7/8 "	6 "	5/16 "	1.30

Packed in Boxes of four dozen each.

WAGON AXLE CLIPS.

MADE OF NORWAY IRON.

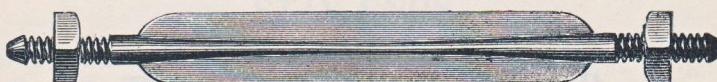


No.	Width of Flat Part.	Length of Flat Part.	Size of Shank.	Price per dozen.
2.	7/8 inch.	3 3/4 inches.	5/8 inch.	\$ 1.20
3.	7/8 "	4 1/4 "	5/8 "	1.30
4.	1 5/16 "	4 3/4 "	5/8 "	1.40
5.	1 "	5 1/4 "	5/8 "	1.50
6.	1 1/8 "	6 "	5/8 "	1.60

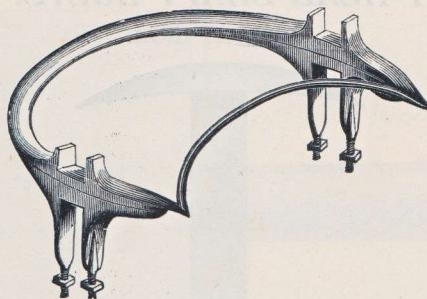
Packed in Boxes of four dozen each.

SPRING BAR CLIPS.

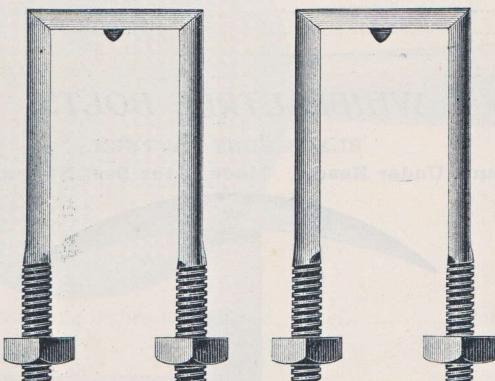
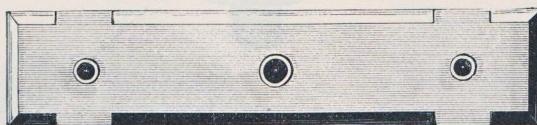
MADE OF NORWAY IRON.



No.	Width of Flat Part.	Length of Flat Part.	Size of Shank.	Price per dozen.
0.	5/8 inch.	4 1/2 inches.	5/16 inch.	\$ 1.00
1.	5/8 "	4 3/4 "	5/16 "	1.15
2.	5/8 "	5 1/4 "	5/16 "	1.22
3.	5/8 "	5 3/4 "	5/16 "	1.30
4.	5/8 "	6 3/8 "	5/16 "	1.45
5.	5/8 "	7 "	5/16 "	1.65
6.	5/8 "	7 3/4 "	5/16 "	1.85

FIFTH WHEELS.

$\frac{5}{8}$ Iron, 12 to 14 inches diameter, $\frac{7}{8}$ to $1\frac{1}{8}$ Axle.....	Per dozen, \$7.00
$\frac{3}{4}$ " 12 to 16 " " 1, $1\frac{1}{8}$ and $1\frac{1}{4}$ Axle.....	" 8.00
$\frac{7}{8}$ " 14 to 16 " " $1\frac{1}{8}$, $1\frac{1}{4}$ and $1\frac{1}{2}$ Axle.....	" 13.50

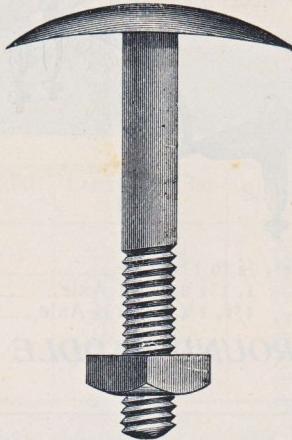
HALF ROUND SADDLE CLIPS.

With Top Plates, per dozen sets, all sizes, \$2.00.

No. 00, for $1\frac{1}{4}$ inch Spring.....	Flat part 2 inches long
No. 0, " "	" $2\frac{1}{4}$ " "
No. $0\frac{1}{2}$, " "	" $2\frac{1}{2}$ " "
No. 1, " "	" $2\frac{3}{4}$ " "
No. 2, " "	" 3 " "
No. 3, " "	" $3\frac{1}{4}$ " "
No. 4, " "	" $3\frac{1}{2}$ " "
No. 5, for $1\frac{3}{8}$ inch Spring.....	" $2\frac{3}{4}$ " "
No. $5\frac{1}{2}$, " "	" $2\frac{1}{2}$ " "
No. 6, " "	" $3\frac{1}{4}$ " "
No. $6\frac{1}{2}$, " "	" $3\frac{1}{2}$ " "
No. $6\frac{3}{4}$, for $1\frac{1}{2}$ inch Spring.....	" $2\frac{1}{4}$ " "
No. 7, " "	" $2\frac{1}{2}$ " "
No. 8, " "	" $2\frac{3}{4}$ " "
No. $8\frac{1}{2}$, " "	" 3 " "
No. $8\frac{3}{4}$, " "	" $3\frac{1}{4}$ " "
No. 9, " "	" $3\frac{1}{2}$ " "
No. 10, " "	" $3\frac{3}{4}$ " "
No. 11, " "	" $4\frac{1}{4}$ " "
No. 12, " "	" $4\frac{1}{2}$ " "

T HEAD SHAFT BOLTS.

NORWAY IRON.

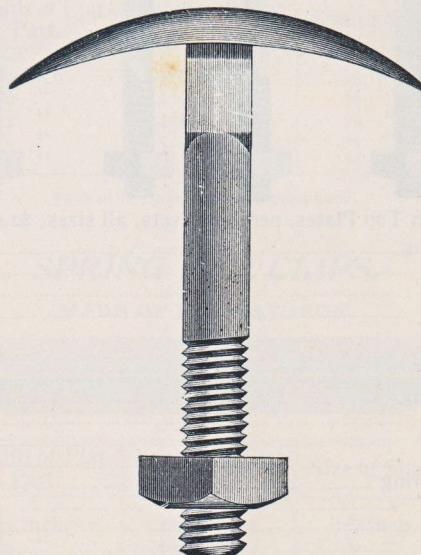


	Per 100, \$
1/4 x 1	3.00
1/4 x 1 1/4	3.10
1/4 x 1 1/2	3.20
1/4 x 1 3/4	3.30
1/4 x 2	3.40
1/4 x 2 1/4	3.50
1/4 x 2 1/2	3.60

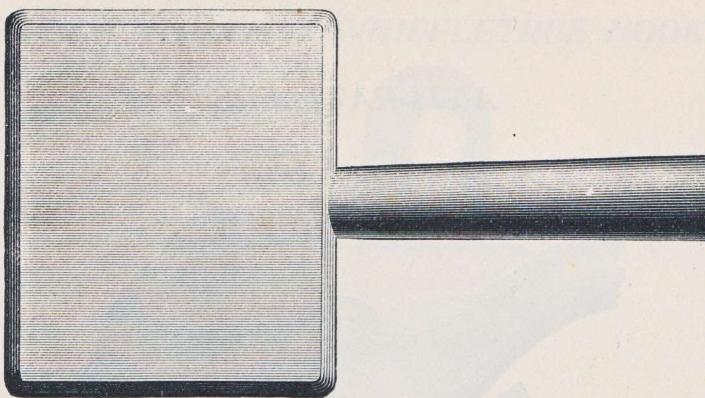
WHIFFLETREE BOLTS.

BLACK BENT PATTERN.

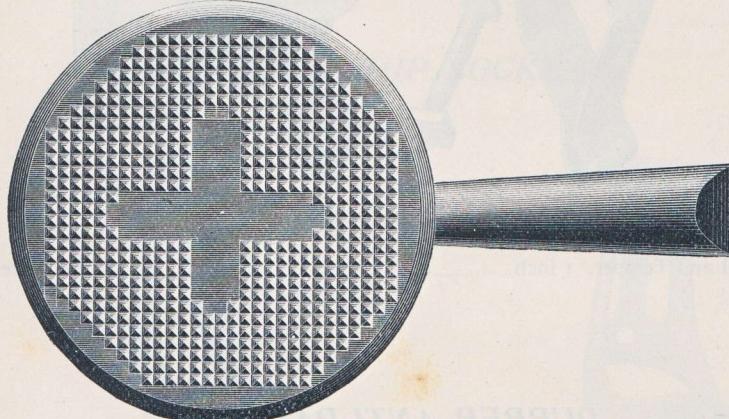
Round Under Head. Made of the Best Norway Iron.



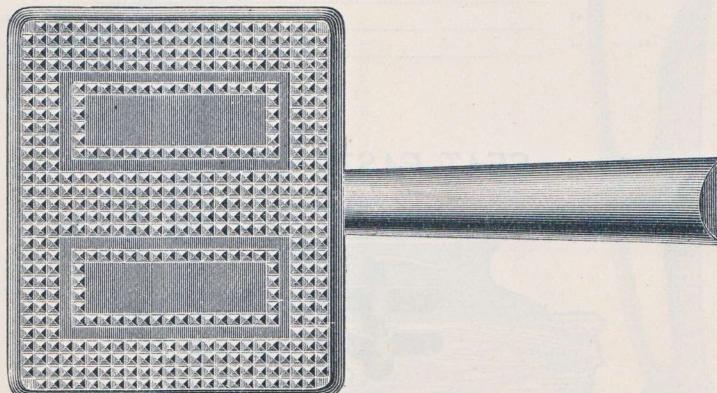
5/8 inch diameter, 3 inches long.....	Per 100, \$
5/8 " " 3 1/2 " "	6.50
5/8 " " 4 " "	7.00
5/8 " " 4 1/2 " "	7.50

WROUGHT IRON STEP PADS.

No. 1, Plain Square Pattern, 3 x 3 1/4 inches	Per dozen pairs, \$4.50
No. 2, " " " 3 1/4 x 4 "	" 5.25
No. 3, " " " 4 x 4 3/4 "	" 7.75



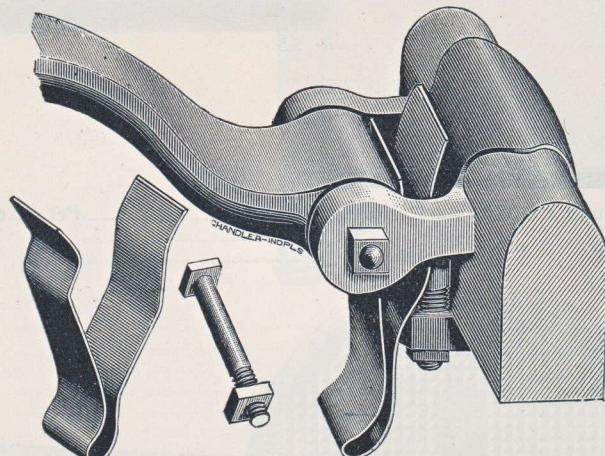
No. 2, Round Cross Pattern, 4 inches in diameter	Per dozen pair, \$6.50
No. 3, " " " 4 1/2 "	" 7.50



No. 1, Atwater Pattern, 3 x 3 1/4	Per dozen pairs, \$5.75
No. 2, " " " 3 1/4 x 4	" 6.25
No. 3, " " " 4 x 4 3/4	" 9.00

ANTI-RATTLES.

MURBARGER'S PATENT.



FAMOUS.

Best Steel and Temper, 1 inch Per dozen, \$1.50

RUBBER ANTI-RATTLES.

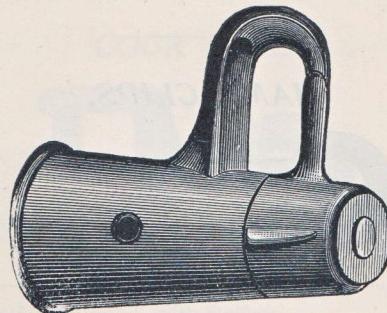
$\frac{3}{8}$ inch, Best Solid Rubber.....	Per dozen, .75
1 " " " "	" .75
1 $\frac{1}{8}$ " " " "	" .75
1 $\frac{1}{4}$ " " " "	" .75

SEAT FASTENERS.

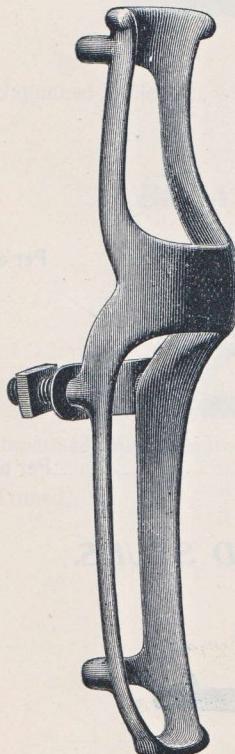
LAMB'S PATENT.



Lamb's Seat Fasteners Per dozen sets, \$2.00

PREMIUM PATENT WHIFFLETREE HOOKS.

Nos	1	2	3	4	5	6
Sizes, inches	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
Per dozen pairs	\$5.00	5.00	5.75	6.50	7.50	8.50

BUFFALO WHIP SOCKETS.

For Leather Dash.

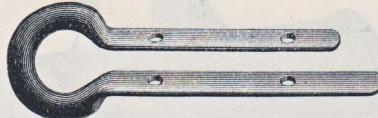


For Wood Dash.

Buffalo Whip Socket for Leather Dash, Japanned..... Per dozen, \$1.20
 " " " " " Wood " " 1.10

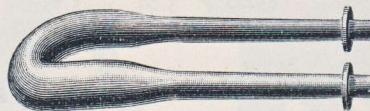
HARNESS HARDWARE.

HAME CLIPS.



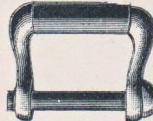
$\frac{3}{8}$ inch Polished..... Per dozen, .20

HAME STAPLES.



$\frac{3}{8}$ inch Polished, with Washers..... Per dozen, .20

HAME LOOPS.



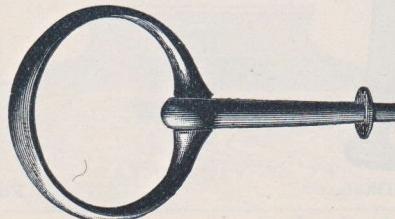
Polished, with Rivets..... Per dozen, .20

HAME RIVETS.

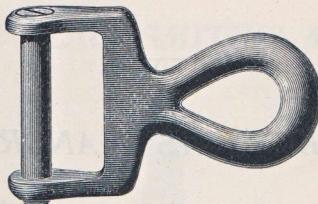


Polished, $\frac{3}{8}$ or 1 inch, packed in 1-pound papers..... Per pound, .15

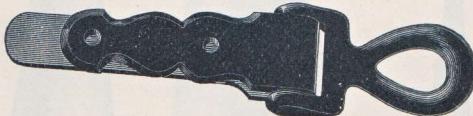
HAME LINE RINGS AND STUDS.



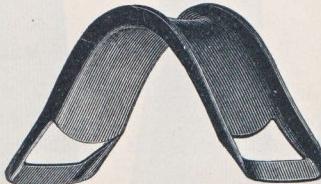
Polished, with Washers..... Per dozen, .20

COCK EYES.

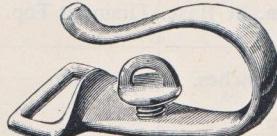
1 1/4 inch, Japanned Malleable, Screwed, with Rollers.....	Per dozen, .28
1 1/2 " " " " " "	" .30
1 3/4 " " " " " "	" .35

CLIP COCK EYES.

1 1/2 inch, Japanned Malleable, with Clip.....	Per dozen, .50
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BREAST STRAP SLIDES.

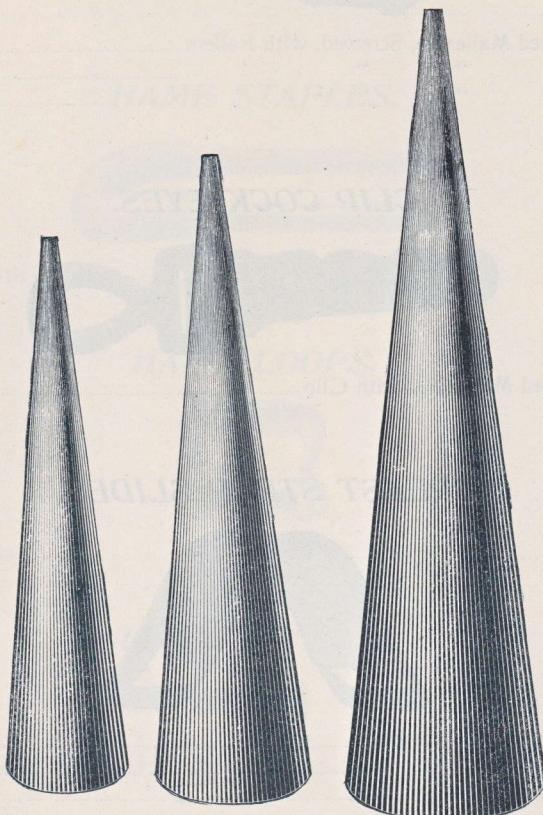
1 1/2 inch, Japanned, Malleable Iron.....	Per dozen, .50
1 3/4 " " " " "	" .60
1 1/2 " Tinned, " " "	" .60
1 3/4 " " " " "	" .70

PAD HOOKS.

No. 180G, 1 1/4 inch, Tinned, with Loop Bolt.....	Per dozen, .65
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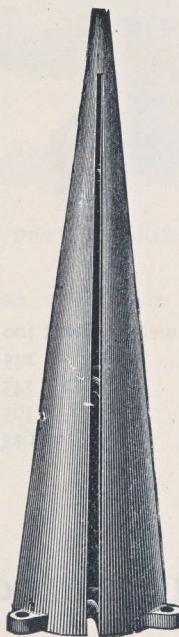
BLACKSMITH TOOLS.

BLACKSMITHS' MANDRELS.



CAST IRON.

Size.	Height.	Diam. at Base.	Diam. at Top.	Weight.	Per lb.
1	32 inches.	8 inches.	1 inch.	About 55 lbs.	.05
1½	40 "	10 "	1 "	" 90 "	.05
2	48 "	12 "	1 "	" 115 "	.05
3	52 "	14 "	1 "	" 140 "	.05
4	54 "	16 "	2 "	" 200 "	.05

CHENEY'S BLACKSMITHS' MANDRELS.

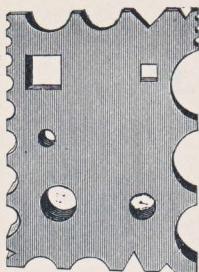
CAST IRON.

These Mandrels are made with a Slot as shown in Cut, which is very convenient for holding end of Iron in bending Rings. They are strengthened with Ties inside the Slot. The Slot is also convenient for handling Rings with Tongs.

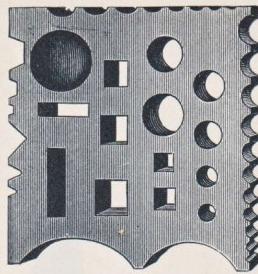
Size.	Height.	Diam. at Base.	Diam. at Top.	Weight.	Per lb.
1	32 inches.	8 inches.	1 inch.	About 60 lbs.	.06
1½	40 "	10 "	1 "	" 100 "	.06
2	48 "	12 "	1 "	" 125 "	.06
3	52 "	14 "	1 "	" 150 "	.06
4	54 "	16 "	2 "	" 220 "	.06

SWAGE BLOCKS.

CAST IRON.



Shape of Nos. 1, 2 and 3.



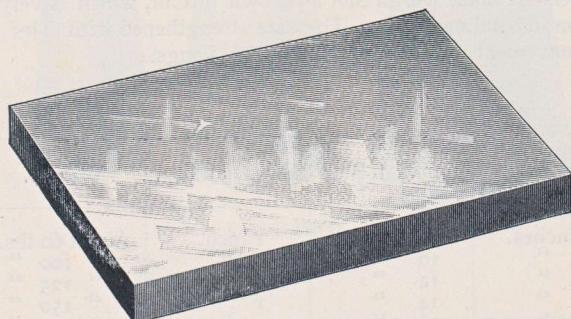
Shape of Nos. 4 and 5.

No. 1, " " " 3 $\frac{5}{8}$ x 10 x 14 inches, weighs about 100 lbs.....	Per lb., .05
No. 2, " 3 $\frac{7}{8}$ x 11 x 15 " " " 125 "	" .05
No. 3, " 4 $\frac{1}{8}$ x 11 x 15 " " " 145 "	" .05
No. 4, " 4 x 15 x 15 " " " 165 "	" .05
No. 5, " 6 x 24 x 24 " " " 625 "	" .05

LEVELING BLOCKS.

CAST IRON.

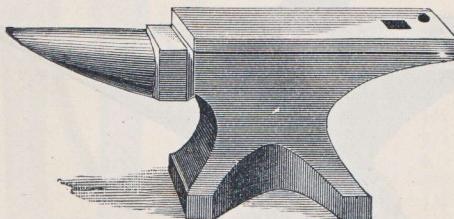
Especially Intended for Plow Work.



These Blocks are made of Superior Pig Iron and are accurately planed on one side.
To ascertain the weight, figure 1 pound to 4 cubic inches.

We can furnish them as follows:

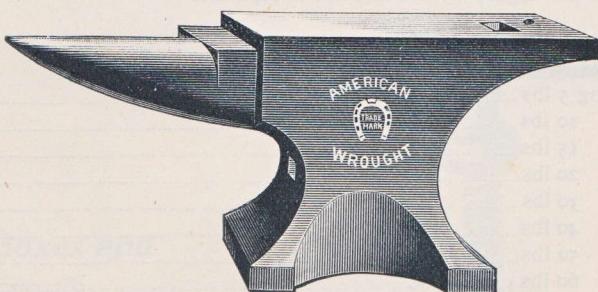
1 $\frac{1}{2}$ to 3 inches thick.....	} Per lb., .05
14 to 24 inches wide	
18 to 30 inches long	

ANVILS.

PETER WRIGHT'S.

Solid Wrought. Steel Face. Not Warranted.

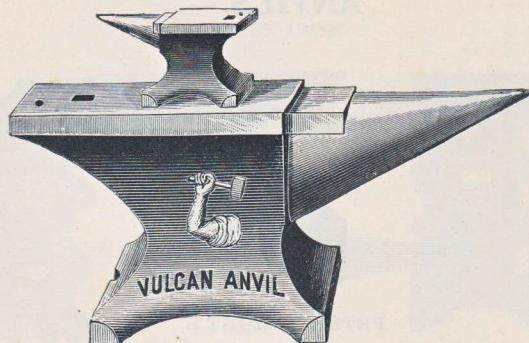
60 to 69 lbs.....	Per lb., .13½
70 to 84 lbs.....	" .12½
85 to 160 lbs.....	" .11½



AMERICAN WROUGHT. WARRANTED.

Made of the best American Wrought Iron, and faced with best Crucible Cast Steel. Top and bottom are each one solid piece and welded at waist. American Wrought Anvils are warranted to be sound, to be free from flaws, and to have faces hard and true.

60 to 69 lbs.....	Per lb., .12½
70 to 84 lbs.....	" .11½
85 to 160 lbs.....	" .10½



VULCAN ANVIL.

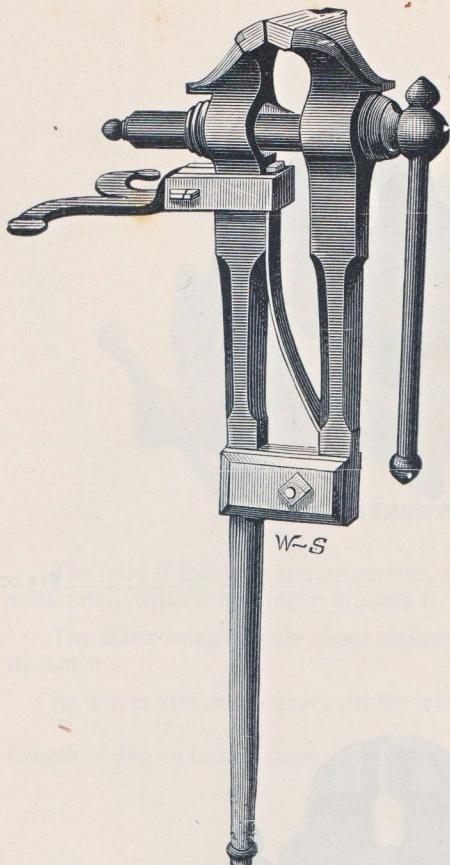
The face of the Vulcan Anvil is one solid piece of English Tool Steel, thoroughly welded to the body of the Anvil by a patented process. It is then accurately ground and tempered, so it will stand the most severe test.

The Horn is covered with, and its extremity made entirely of, tough, untempered Cast Steel.

The Body of the Anvil is made of the best Lake Superior Charcoal Iron, and, being much more solid than Wrought Iron, the work being forged receives the full force of the blow. The face of the Anvil will remain perfectly true after years of service, and it is warranted to be thoroughly welded and not to separate.

PRICE LIST.

No. 00, weighing 5 lbs	\$2.00
No. 0, " 10 lbs.....	2.75
No. 1, " 15 lbs.....	3.25
No. 2, " 20 lbs.....	4.00
No. 3, " 30 lbs.....	4.50
No. 4, " 40 lbs.....	5.25
No. 5, " 50 lbs.....	6.00
No. 6, " 60 lbs.....	6.50
No. 7, " 70 lbs.....	7.25
No. 8, " 80 lbs.....	8.00
No. 9, " 90 lbs.....	9.00
No. 10, " 100 lbs.....	10.00
No. 11, " 110 lbs.....	11.00
No. 12, " 120 lbs.....	12.00
No. 13, " 130 lbs.....	13.00
No. 14, " 140 lbs.....	14.00
No. 15, " 150 lbs.....	15.00
No. 17½, " 175 lbs.....	17.50
No. 20, " 200 lbs.....	20.00
No. 25, " 250 lbs.....	25.00

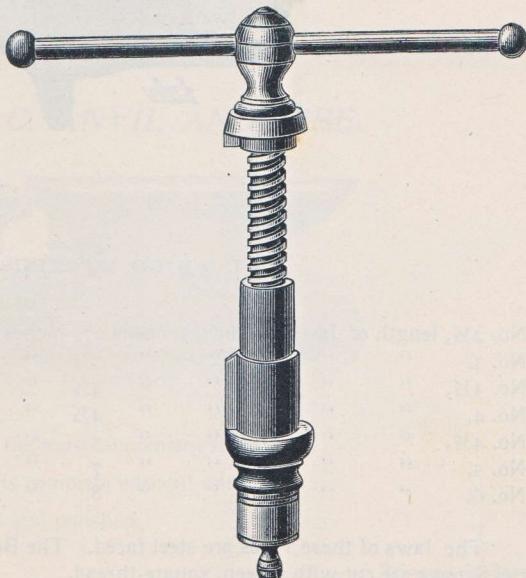
**VISES.****Blacksmiths' Solid Box.**

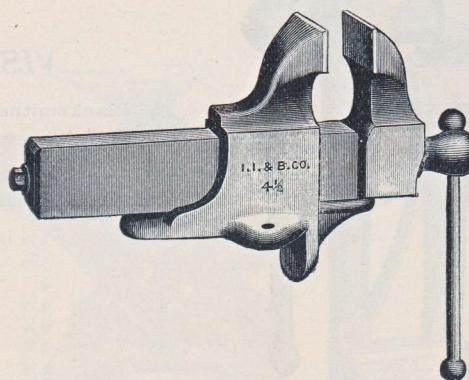
Weight.	Jaw.	Price, each.
30 lbs.	3½ inch.	\$11.00
35 "	3¾ "	10.00
40 "	4 "	10.50
45 "	4½ "	11.00
50 "	4¼ "	11.50
55 "	4½ "	12.00
60 "	4½ "	13.00
65 "	4¾ "	14.00
70 "	5 "	15.00
75 "	5 "	16.00
80 "	5¼ "	17.50
85 "	5¼ "	18.50
90 "	5½ "	20.00
100 "	6 "	22.00
110 "	6¼ "	25.00
120 "	6½ "	26.00

**Vise Boxes and
Screws.**

Each.

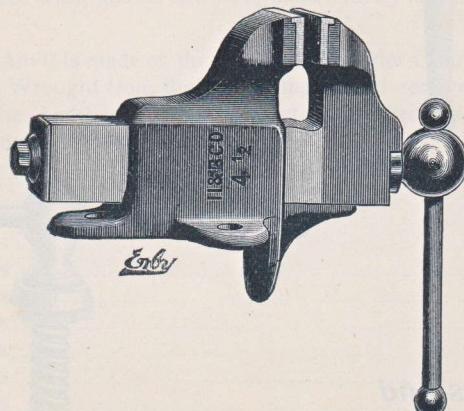
No. 1, 1½ in. Screw, 30 to 45 lbs....	\$3.50
No. 2, 1¼ in. " 50 to 55 "	4.00
No. 3, 1½ in. " 60 to 90 "	4.50
No. 4, 1½ in. " 90 to 110 "	5.50
No. 5, 1½ in. " 110 lbs. up....	7.00





I. I. & B. WOODWORKER'S VISE.

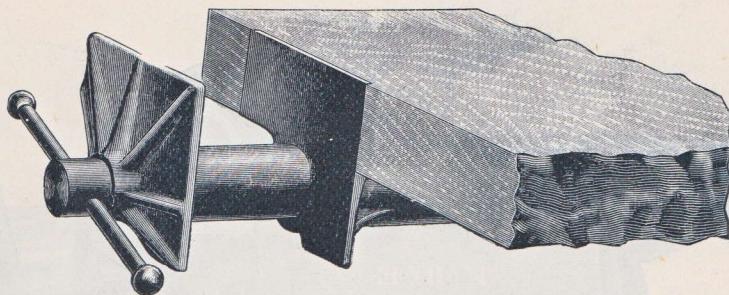
Length of Jaws $4\frac{1}{2}$ inches, opens 9 inches..... \$15.00



I. I. & B. CO. MACHINIST'S VISE.

No. 2 1/2,	length of Jaws 2 1/2 inches,	opens 2 1/2 inches.....	\$ 8.00
No. 3,	" " 3 "	" " 3 1/2 "	9.50
No. 3 1/2,	" " 3 1/2 "	" " 4 1/2 "	12.00
No. 4,	" " 4 "	" " 4 1/2 "	15.00
No. 4 1/2,	" " 4 1/2 "	" " 5 "	20.00
No. 5,	" " 5 "	" " 7 "	25.00
No. 6,	" " 6 "	" " 8 "	30.00

The Jaws of these Vises are steel-faced. The Beams are planed true on all sides and the Screws are cut with a deep, square thread.

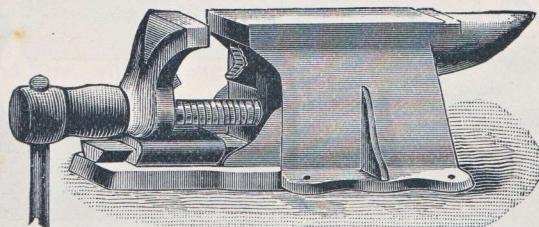
I. I. & B. CO'S. CABINETMAKERS' VISE.

The jaws of this Vise operate parallel, are planed true and smooth, and will hold the work firmly without marring or bruising it.

The Screw being entirely closed makes it impossible for dirt or chips to interfere with its motion.

As will be seen in the above cut the jaws are flush with the top of Bench.

Length of Jaws 9 inches, Jaws open 12 inches..... Price, \$9.00

THE S. & C. ANVIL AND VISE.

This is one of the most convenient tools used.

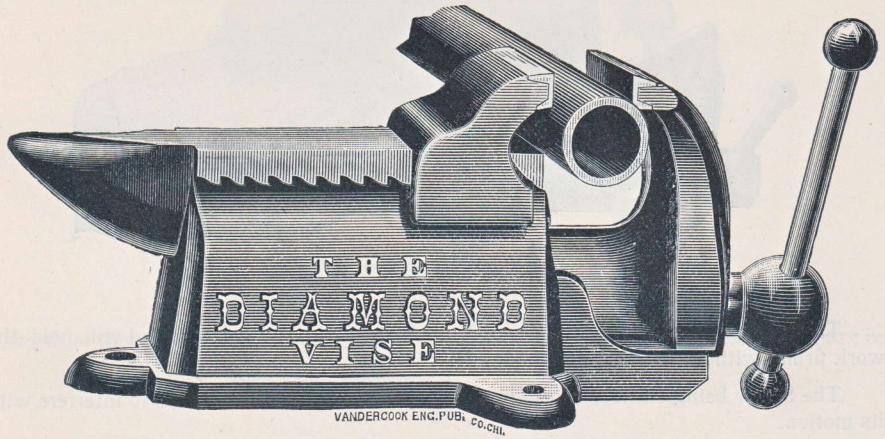
No workshop is complete without one.

Face hardened and polished.

No. 1, 33 pounds..... Price each, \$3.00

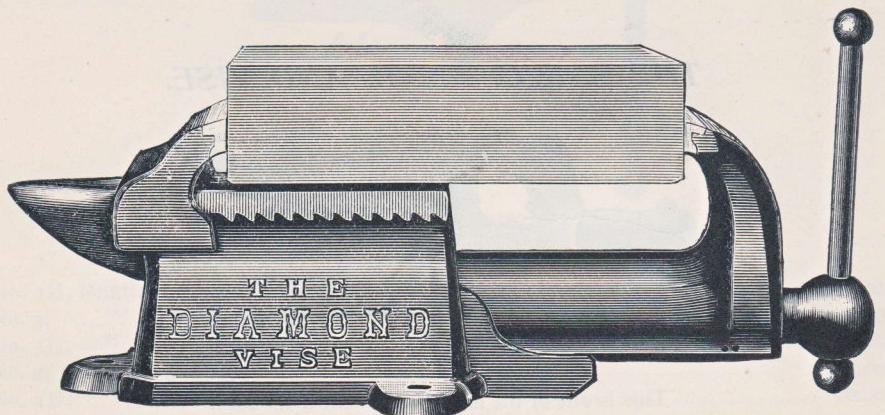
THE DIAMOND VISE.

MACHINISTS' VISE, PIPE VISE AND DRILL.



Jaws 4 inches. Steel-Faced Anvil Face 3×7 . Polished and Hardened.

To hold Pipe move small Jaw back one notch. Three sharp Jaws, 4 inches long, clamps Pipe up to 2 inches more securely than any other Vise.



Small Jaws can be removed or set at any position.

Will extend to hold work up to 12 inches.

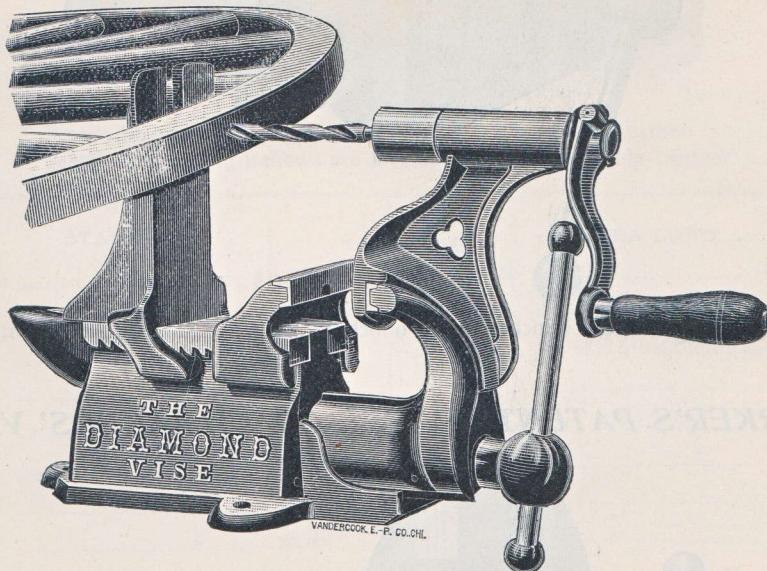
Diamond Anvil and Vise Each, only \$5.00

BASKER'S LATEST CATALOGUE, NO. 2

Diamond Anvil Vise with Drilling Attachment
Diamond Anvil Vise with Drilling Attachment

DIAMOND VISE.

WITH DRILLING ATTACHMENT.

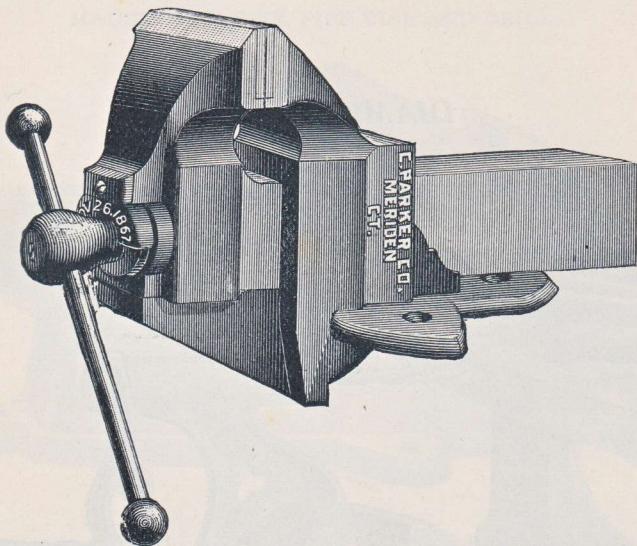


Will take Square Shank Drills up to $\frac{3}{4}$ inches.

Diamond Anvil and Vise, with Drilling Attachment Each, \$7.50

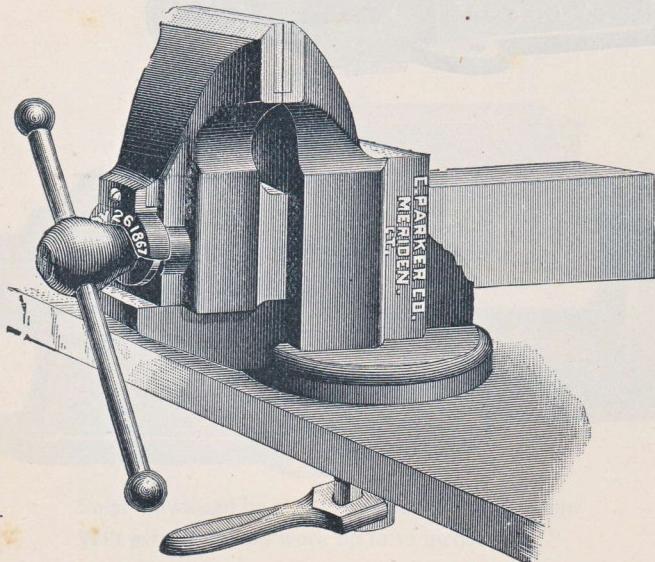
PARKER'S PATENT COACHMAKERS' VISE.

Designed for the Use of Carpenters, Cabinet Makers, Pattern
Makers and Woodworkers Generally.

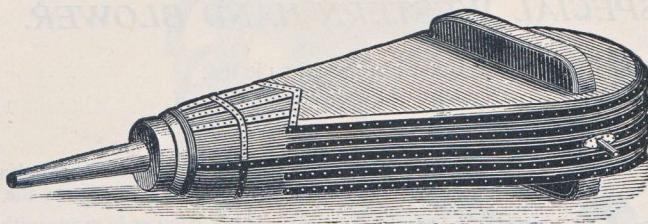


No. 4000, Length of Jaw 4 inches, opens 9 inches..... Each, \$10.00

PARKER'S PATENT SWIVEL COACHMAKERS' VISE.



No. 46, Length of Jaw 4 inches, opens 8 inches..... Each, \$12.50

SCOTT'S BLACKSMITHS' BELLOWS.

Scott's Standard Bellows are covered with the best Split Leather.
Scott's Extra Long Bellows are covered with the best Grain Leather.

STANDARD.

24 inch	\$ 10.00
26 "	11.00
28 "	12.00
30 "	13.00
32 "	14.00
34 "	16.00
36 "	18.00
38 "	20.00
40 "	23.00
42 "	27.00
44 "	32.00

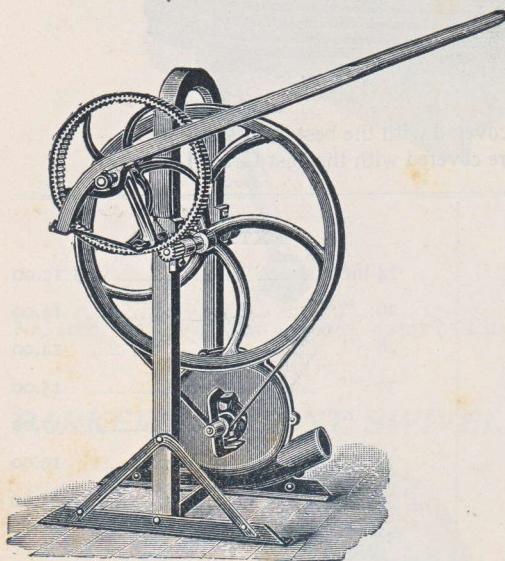
EXTRA LONG.

24 inch	\$ 12.00
26 "	13.00
28 "	14.00
30 "	15.00
32 "	17.00
34 "	19.00
36 "	21.00
38 "	24.00
40 "	28.00
42 "	34.00
44 "	40.00
46 "	45.00
48 "	50.00
50 "	60.00

FORGES AND BLOWERS.

SPECIAL WESTERN HAND BLOWER.

For Hand Use, weight 130 lbs.
Diameter of Fan, 14 inches.



The strongest and most durable Hand Blower ever offered the public.

This Blower is made with a wrought iron frame, without wood or leather, except the handle and belt. When worked by hand it gives blast enough for two ordinary fires; operated by power it gives blast enough for three or four, according to the size of the fires.

POINTS OF SUPERIORITY :

1. It has a wrought iron frame of angle iron, riveted together so that it is perfectly rigid, and is not affected by fire or weather.
2. The wind blast capacity is fully equal to the smith's large bellows.
3. The bearings are babbittted, when worn out can be easily repaired.
4. The main gear wheel is put in motion by dogs and ratchet and can be replaced by any ordinary blacksmith.

No. 1 Hand Blower, \$25.00.

SPECIAL WESTERN FORGE.

No. 20.

Without Hood.

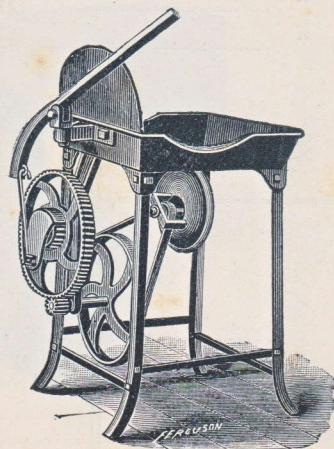
With Angle Iron Legs.

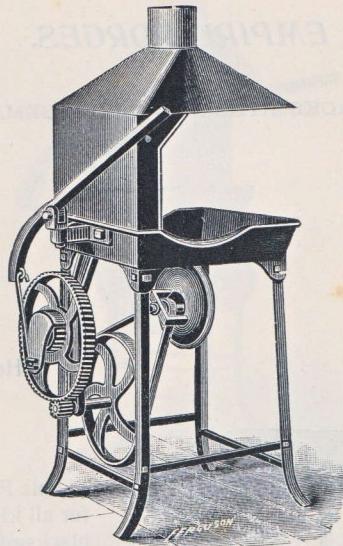
Fan 7 inches. Size 15 x 19. Height 33 inches.
Weight 95 lbs.

Lever Handles. Deep Fire Pans.
Babbittted Bearings.

Making them easily worked, very strong and quickly repaired. They are made with our new Ratchet, giving a positive forward motion, without dead centers.

Price \$22.00.



EMPIRE FORGES.

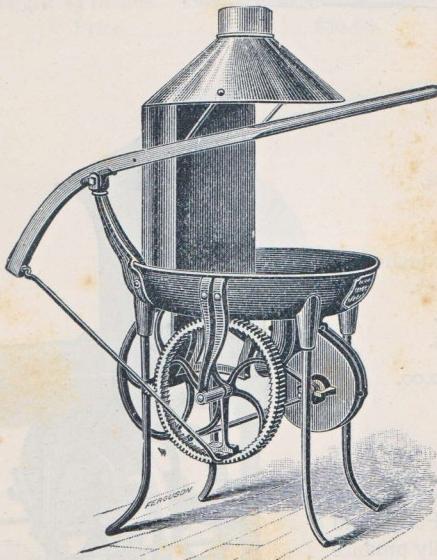
No. 21, with Hood, Angle Iron Legs.

Fan 7 inches. Size 15 x 19 inches. Height 55 inches. Weight 115 lbs.

Lever Handles. Deep Fire Pans. Babbittted Bearings.

Making them easily worked, very strong and quickly repaired. They are made with our new Ratchet, giving a positive forward motion without dead centers.

Price \$24.00.



No. 31, with Pipe Legs, Half Hood.

Fan 10 inches. Height 29 inches. Fire Pan 21 x 27 inches. Weight 145 lbs.

Price \$40.00.

EMPIRE FORGES.

FOR BLACKSMITHS AND CARRIAGEMAKERS.



No. 30.

For Hand.

Height 30 inches.

Hearth 28 x 40 inches.

Fan 14 inches.

Weight 250 lbs.

This Forge is especially adapted for all kinds of heavy carriage and blacksmith work, having a large Fire Pan with sufficient blast for the heaviest kind of work.

Price \$50.00.

Water Tank \$4.00 extra.

No. 7.
For Hand.
With Half Hood.
Pipe Legs.
Swivel Handle.
Height of Fire Pan 25 inches.
Size 28 x 40 inches.
Fan 14 inches.
Weight 310 lbs.

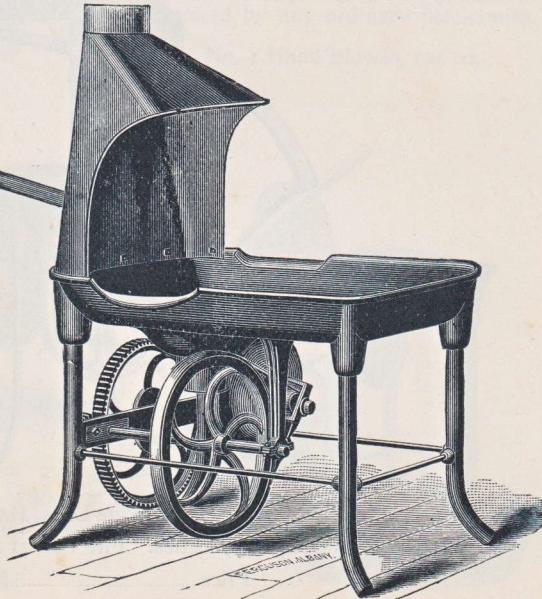
Prlce \$50.00.

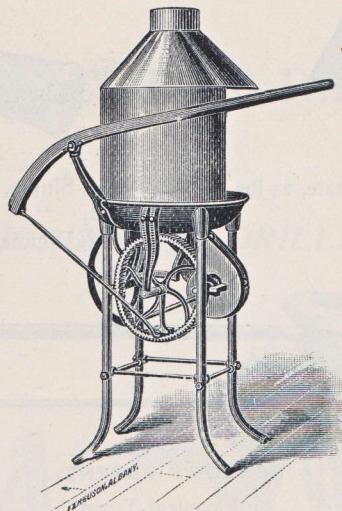
No. 7.
For Power.

This Forge will do as heavy work as the ordinary brick Forge and large Bellows, and readily produce welding heat on 3 or 4-inch iron.

Price \$55.00.

Water Tank \$4.00 extra.



EMPIRE FORGES.

No. 34, with Pipe Legs, Half Hood.

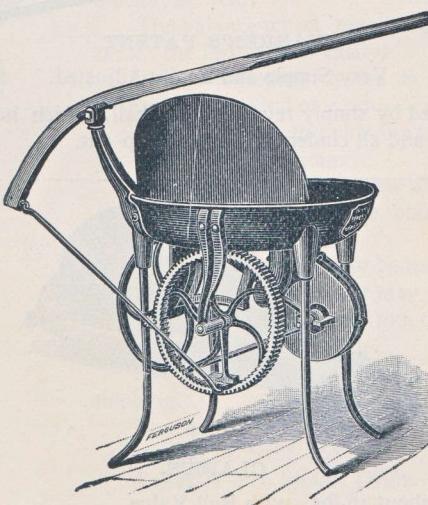
Fan 8 inches. Height 33 inches. Fire Pan 18 inches diameter. Weight 75 lbs.
Price \$27.00.

No. 35, with Pipe Legs, without Hood.

Fan 8 inches. Height 33 inches. Fire Pan 18 inches diameter. Weight 75 lbs.
Price \$24.00.

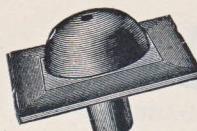
No. 36, with Pipe Legs, Closed Hood.

Fan 10 inches. Height 33 inches. Fire Pan 18 inches diameter. Weight 85 lbs.
Price \$30.00.



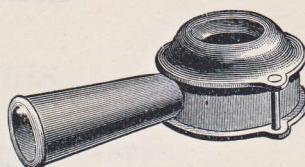
No. 33, with Pipe Legs, without Hood.

Fan 10 inches. Height 29 inches. Fire Pan 21 x 27 inches. Weight 135 lbs.
Price \$36.00.

TYUYER IRONS.

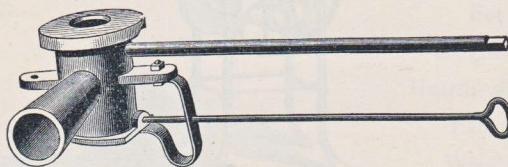
GLOBE.

Globe, weight without Plate, 24 lbs.
Each, \$1.00.



DUCK NEST.

No. 1, Single, weight, 11 lbs.....	Each, .75
No. 2, " " 15 "	" .90
No. 2, Double, " 17 "	" 1.00

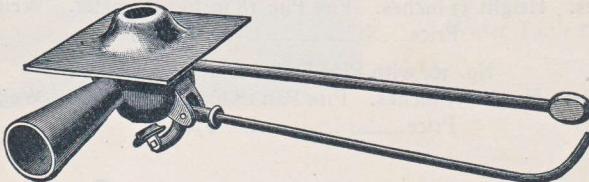


NORTON'S PATENT.

An Excellent Tuyer.

To regulate the blast, turn the large rod. The cinders and ashes may be removed by drawing out the small rod which opens the slide. The levers and spring are readily changed to either side for right or left hand use.

Norton's Patent..... Each, \$2.00.

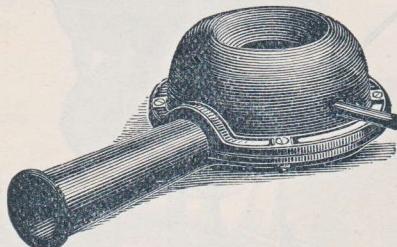


WARREN'S PATENT.

Very Simple and Easily Adjusted.

The blast is regulated by simply revolving the ball, which has three unequal sides. Open the bottom valve, and all cinders and ashes drop out.

Warren's Patent..... Each, \$2.25.

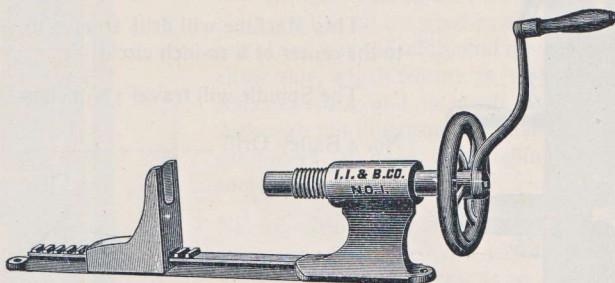


CLARK'S.

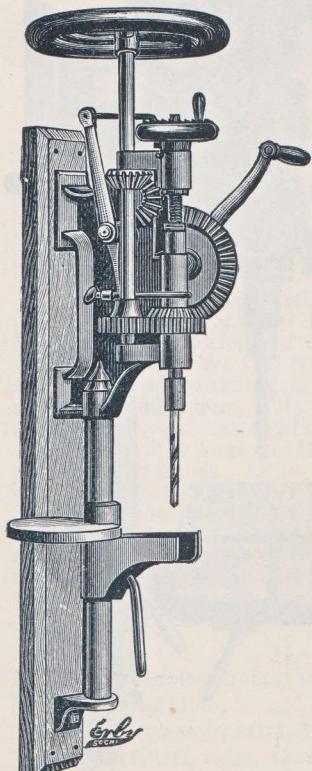
No. 1, Clark's, weight about 18 lbs., with Ball Valve.....	Each, \$1.30
No. 2, " " " 21 "	" 1.40
No. 3, " " " 26 "	" 1.60
No. 4, " " " 45 "	" 2.40

BLACKSMITHS' DRILLS.

HORIZONTAL DRILLS.



No. 1, weight 27 lbs Each, \$3.00



BAILEY DRILL NO. 3.

This Drill, being made of the best material, will be found strong and durable, and able to stand a great amount of wear.

The balance-wheel revolving on a vertical bearing causes the Drill to run easily.

The self-feeding devise is adjustable and easily adapted to any kind of work.

An improved cam holds the table firmly in position at any point on the column.

The spindle and feed-screw are of polished steel.

Different speeds may be obtained by changing the crank to different shafts

The balance-wheel may be used, or it can easily be disconnected as the operator may desire.

This machine will drill from 0 to 1-inch hole and to the center of a 10-inch circle.

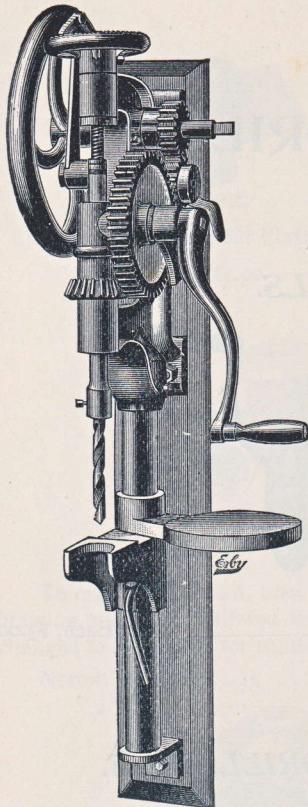
Every Drill is set in perfect line and tested before shipping.

The spindle will travel $3\frac{1}{2}$ inches.

Weight of Drill, 160 pounds.

Takes $\frac{1}{2}$ -inch Shank Drills.

No. 3 Bailey, boxed Each, \$22.00



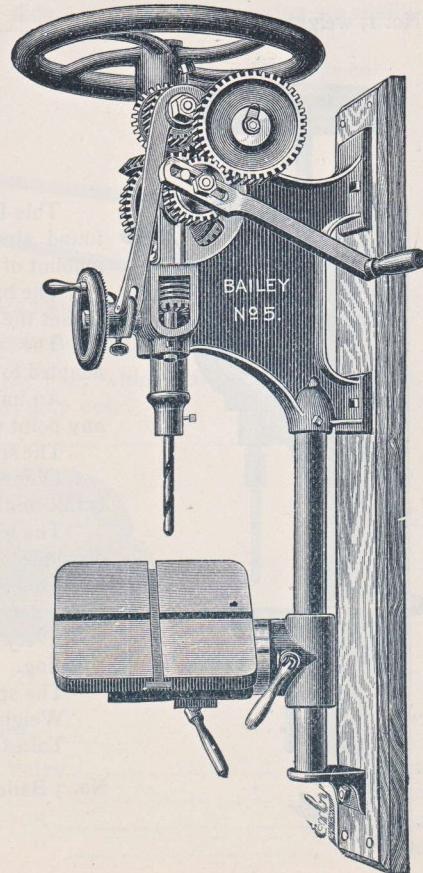
BAILEY DRILL NO. 4.

The Spindle of this Drill is made to receive $\frac{1}{2}$ -inch straight shank Drill Bits, unless otherwise ordered.

This Machine will drill from 0 to 1-inch hole, and to the center of a 10-inch circle.

The Spindle will travel $3\frac{1}{2}$ inches.

No. 4 Bailey Drill Each, \$24.00



BAILEY DRILL NO. 5.

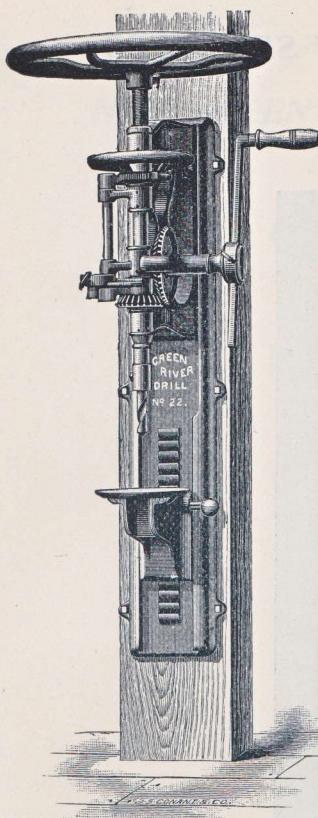
The table of this Drill may be fastened at any point on the column, and can be adjusted to any desired angle convenient to the operator. The work can be clamped to the table the same as on power Drills.

The Spindle runs in a sleeve bearing 9 inches long, which gives it great steadiness and prevents the Spindle from being worn and loose.

The Spindle of this Drill is made to receive $\frac{1}{4}$ inch straight shank Drill Bits, unless otherwise ordered.

This Machine will drill from 0 to $1\frac{1}{2}$ inches, and to the center of a 16-inch circle. The Spindle travels 4 inches.

No. 5 Bailey Drill, as shown	\$36.00
No. 5 Bailey Drill, with loose and tight pulleys, for power only	40.00
No. 5 Bailey Drill, with loose and tight pulleys, for hand or power	42.00
No. 5 Bailey Drill, with countershaft and cone pulleys, for power only	60.00



Green River Blacksmith Drill.

No. 22.

SWINGING TABLE.

This Machine will drill as large as 1 inch. Drills to center of 15 inch circle. Diameter of balance wheel 19 inches.

Drill Bits to fit this Machine should have $\frac{1}{2}$ inch round shanks.

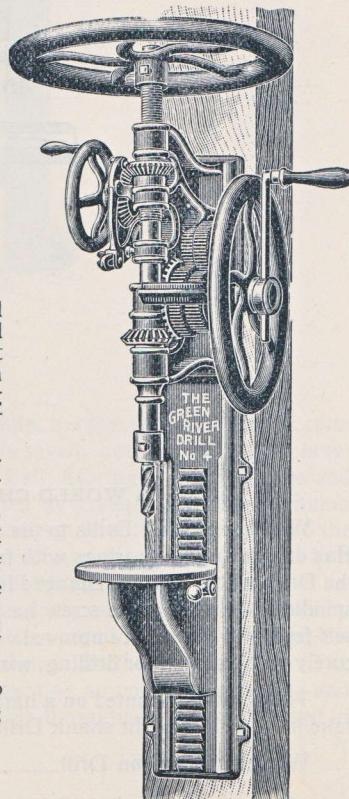
We can supply this Drilling Machine with our regular straight table or with swinging table. The swinging table has all the good points of our regular straight table, and has the additional advantage of swinging to either side, which feature is very convenient for some kinds of work and is much liked by our customers. Although not illustrated or advertised in our previous catalogues, we have been selling these machines for some time.

No. 22, with regular straight table \$20.00

With swinging table 22.00

Pulley for belt, extra, \$5.00.

Countershaft, extra, \$12.00.



Green River Blacksmiths' Drill.

No. 4.

SHOWING REGULAR STRAIGHT TABLE.

We recommend this Machine for repair shops and others having similar work to do. It is a very good Drill, stiff, well made, and capable of doing a great variety of work. We fit it for hand or power use, can supply extra screw-setting attachments for threading short bolts and tapping nuts, and also supply either style of table, viz:—straight or swinging.

It will drill as large as $1\frac{1}{2}$ inch. Diameter of balance wheel 20 inches. Drills to center of 20 inch circle. Weight 250 pounds.

It is speeded for small work when crank is applied as shown in the cut. For heavy work, and for screw cutting, the crank is placed in the wheel at the side of the machine, which multiplies the power nearly three times.

Drills to fit this machine should have $\frac{11}{64}$ round shanks.

No. 4, with regular straight table \$70.00

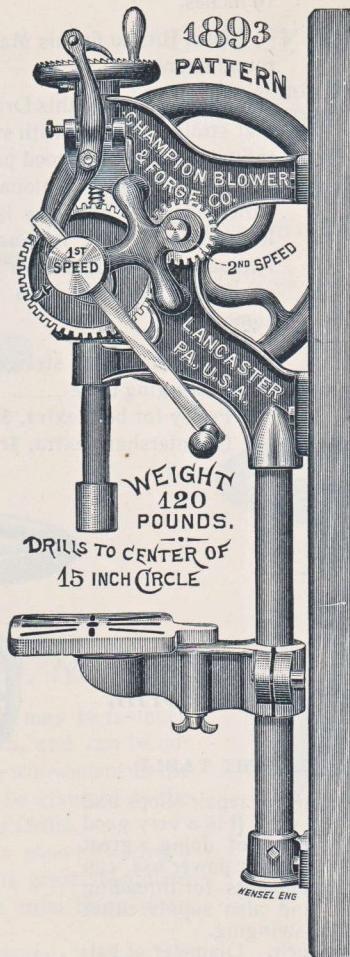
With swinging table 72.25

Pulley for power, extra, \$7.50.

Countershaft, extra, 12.00.

Wheel-holding attachment, extra, \$7.50.

**\$10.00 WORLD'S CHAMPION SELF-FEED
POST DRILL.**



A WORLD CHALLENGE DRILL FOR \$10.00.

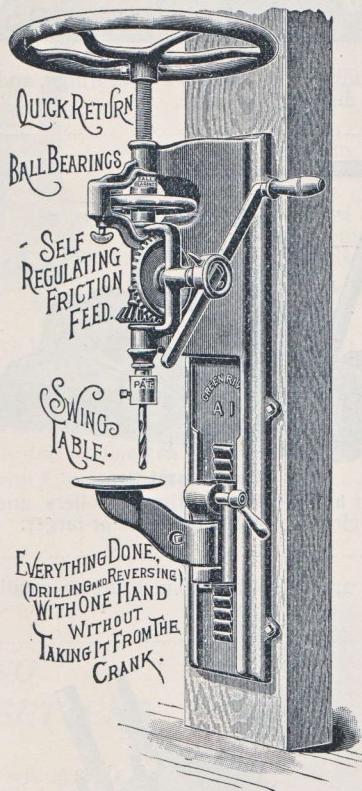
Weight 120 lbs. Drills to the center of a 15 inch circle, and from $\frac{1}{4}$ to $1\frac{1}{4}$ inch hole. Has double journal bearings with full back gear, also two speeds on the right hand side of the Drill which can be changed in an instant to suit all kinds of work. Diameter of spindle $1\frac{1}{4}$ inches. The screw has an up and down run of $4\frac{1}{2}$ inches. The automatic self-feed is of the latest improved. The table is large and slotted, so the operator can securely bolt work on for drilling, which is very convenient for many kinds of work.

This Drill is mounted on a hard wood plank 2 inches thick. The spindle is bored to take in $\frac{1}{2}$ inch straight shank Drills.

World's Champion Drill.....	\$10.00.
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EVERY DRILL WARRANTED.

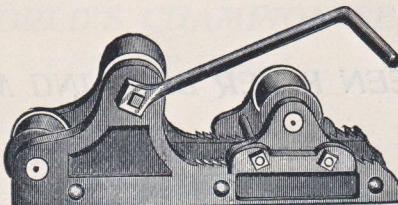
NEW GREEN RIVER DRILLING MACHINE.



NO. A 1.

The Feed Screw is cut in the solid steel of the spindle, the pressure of the work coming in but one place. By this means half the friction is saved, and the remainder is reduced to almost nothing by the use of Anti-Friction Ball Bearings, the most free and reliable bearing in the world. The Feed, which is started by a slight pressure of thumb screw, is perfectly steady and continuous (not jerky), and regulates itself according to the material being drilled. For instance, being set so as to cut a good chip in wrought iron or steel, it cuts faster through cast iron and bores rapidly through wood,—all without being readjusted. Again, the point of the Drill is lifted swiftly out of the finished hole by simply turning the crank backwards,—a great convenience and saving of time, the left hand being always free. The bed piece is iron and of unusual stiffness and solidity. The headstock is locked together in front of the spindle, preventing any possible springing and binding. The machine is thoroughly and accurately built throughout, the gears keyed in place, and everything made to stand long service.

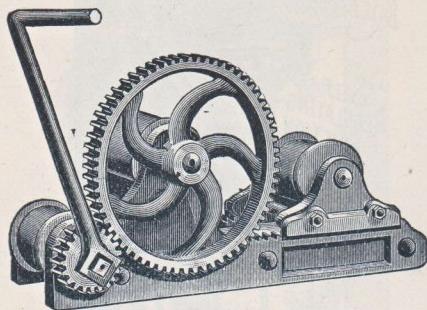
No. A 1 Green River Drill..... Each, \$15.00.

TIRE BENDERS.

No. 1.

This Machine is made with turned rollers and bearings, and will bend $3\frac{1}{4}$ inch tire or smaller to a circle 30 inches diameter or larger.

No. 1 Tire Bender Each, \$6.00.

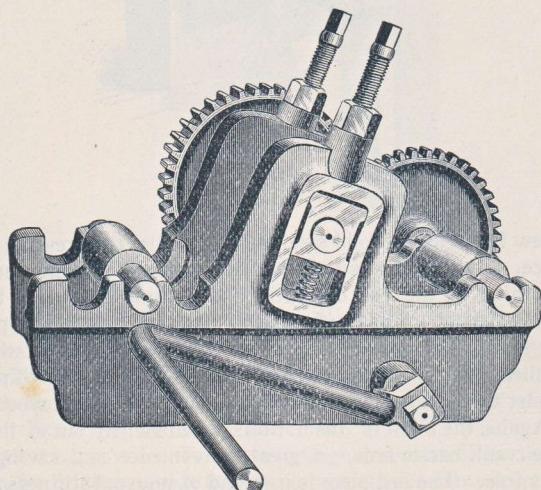
Nos. 2 and $2\frac{1}{2}$.

No. 2 is made with gear and pinion, has turned rollers and bearings, and will bend $3\frac{1}{4}$ inch tire or smaller to a circle 30 inches diameter or larger.

No. 2 Tire Bender Each, \$7.00.

No. $2\frac{1}{2}$ is made as No. 2, but will bend 6 inch tire or smaller to a circle 30 inches diameter or larger.

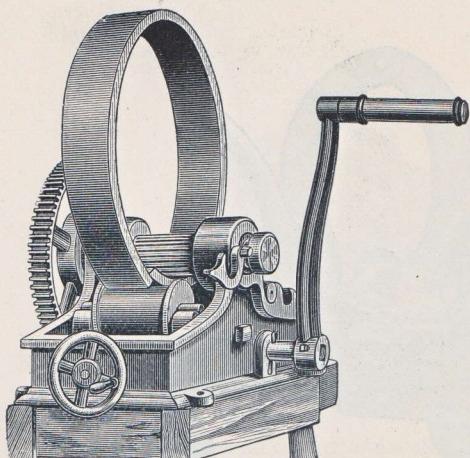
No. $2\frac{1}{2}$ Tire Bender Each, \$8.50.



No. 3-Extra Heavy.

This machine is double geared, has turned rollers and bearings, is very strong and durable, and will bend 5 inch tire or smaller to a circle 30 inches diameter or larger. In bending very heavy tire two cranks may be used on opposite sides, thus giving double power.

No. 3 Tire Bender Each, \$10.50.



THE DETROIT PERFECTED BENDER.

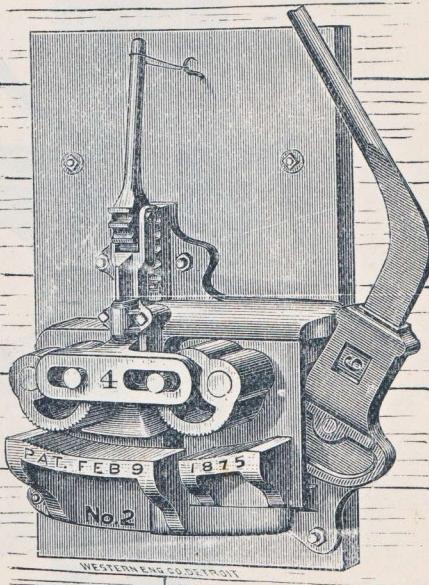
The great advantage which this machine offers is that the center top roll is removable. It is made very strong and durable. The body of the machine consists of one solid piece without bolt or nut. The rolls are turned *true*, and are adjusted by a screw as shown in cut. The size of circle ranges from 12 inches to 12 feet. *Tires can be trued up after welding.* This Bender is not to be classed with the numerous low-priced machines in the market, and as one will last a lifetime the additional expense is well invested.

It is strictly a first-class machine.

No. 21, will take 4 x $\frac{1}{2}$ inch tire, not geared.....	\$12.00
No. 22, " 4 x $\frac{3}{8}$ " is "	19.00
No. 23, " 6 x $\frac{3}{4}$ or 4 x 1 inch tire, is geared	26.00
No. 24, same as No. 23, with Countershaft and Pulleys for Power.....	35.00
No. 25, will take 6 x 1 inch tire, double geared, extra heavy bed	55.00
No. 26, same as No. 25, with Countershaft and Pulleys.....	65.00

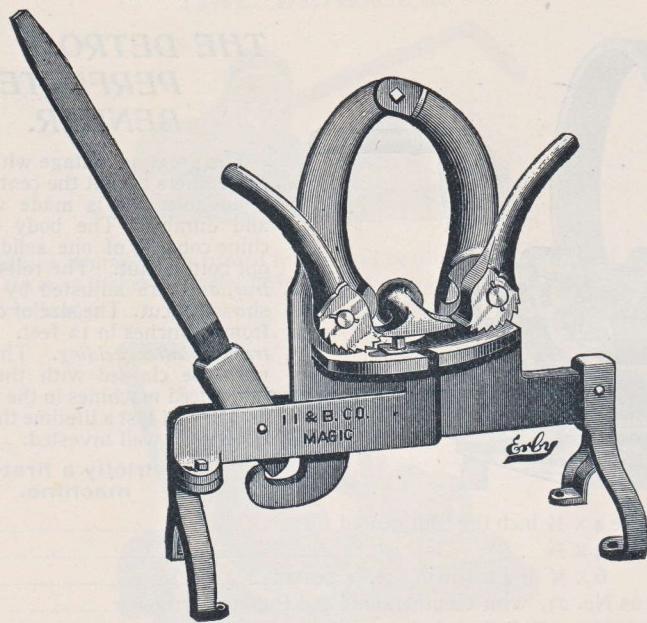
STODDARD'S LIGHTNING TIRE UPSETTERS.

No. 1 is a 2-inch Machine, will upset a tire from $\frac{1}{2}$ to $\frac{3}{4}$ inch thick, and any width up to 2 inches	\$14.00
No. 2 is a 4-inch Machine, will upset any tire up to 4 inches wide	22.50
No. 3 is a "Special" 4-inch Machine, has sets of loose jaws, can be adjusted for large and small circles, also for upsetting axles up to $1\frac{1}{4}$ inches thick.....	26.00
No. 4 is a 6-inch Machine, for upsetting tires 6 inches wide.....	36.00
No. 5 is a "Special" 6-inch Machine, has 2 sets of loose jaws, can be adjusted for large and small circles, also for upsetting axles up to 2 inches thick. This is for upsetting tires 6 inches wide.....	45.00

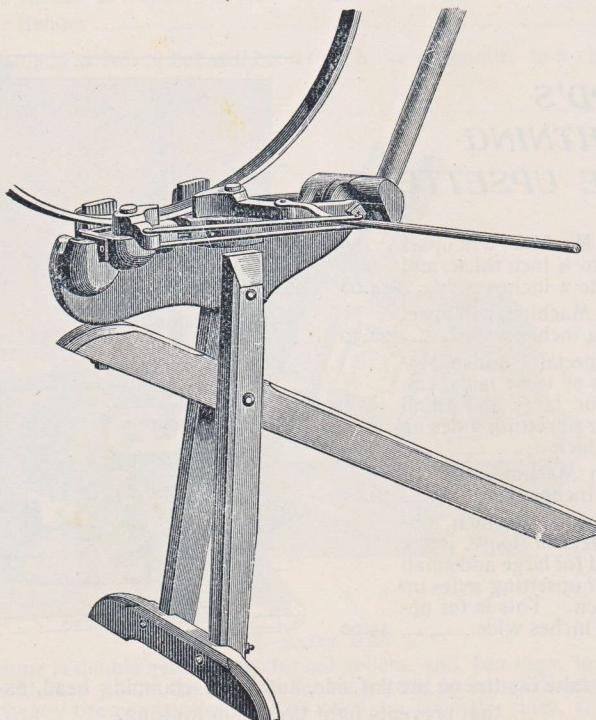


These Upsetters take the tire on the flat side, and have clamping head, as shown in cut, that prevents light tires from kinking.

ALL MACHINES ARE TESTED BEFORE LEAVING SHOPS.

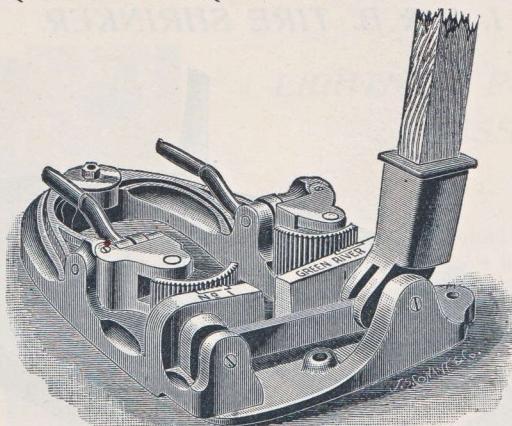
MAGIC TIRE SHRINKER.

This is a strong and durable machine. It is always ready for use and occupies but little room. The Magic will shrink Tire 3 inches wide or smaller. Price \$12.00.

THE O. & D. TIRE SHRINKER AND PUNCH.

This machine has acquired the reputation of being an excellent Tire Shrinker and Punch. The O. & D. will shrink Tire 3 1/4 inches wide or smaller. Price \$14.00.

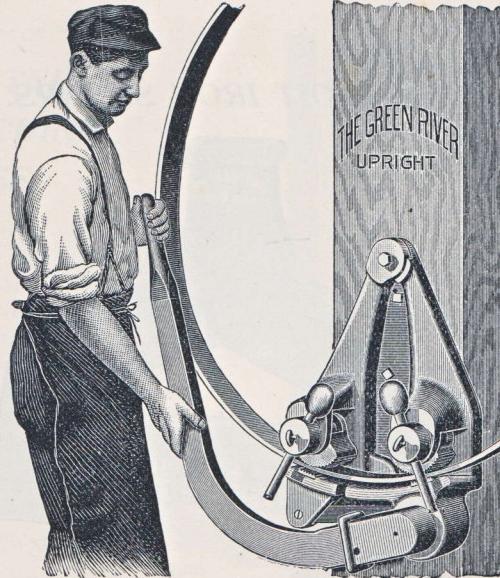
GREEN RIVER TIRE SHRINKERS.



This machine saves all cutting and welding of tires. It is managed by one man with perfect ease, and works equally well on the lightest steel tires and on wagon tires 3 inches wide. It occupies a space about 2 feet square on the floor. Weight 160 pounds. The handle may be taken out of the socket when not in use. The tire lies in a properly-shaped former, and force being applied to the handle with the left hand, the right remains at liberty to use the hammer in keeping the work true and straight, the only safe way of getting a perfect result at a single heat. The cams which grip the work are set by means of levers at the will of the workman, and are instantly withdrawn from the finished tire in the same way. All slipping at starting, and all jamming and sticking after finishing are thus avoided.

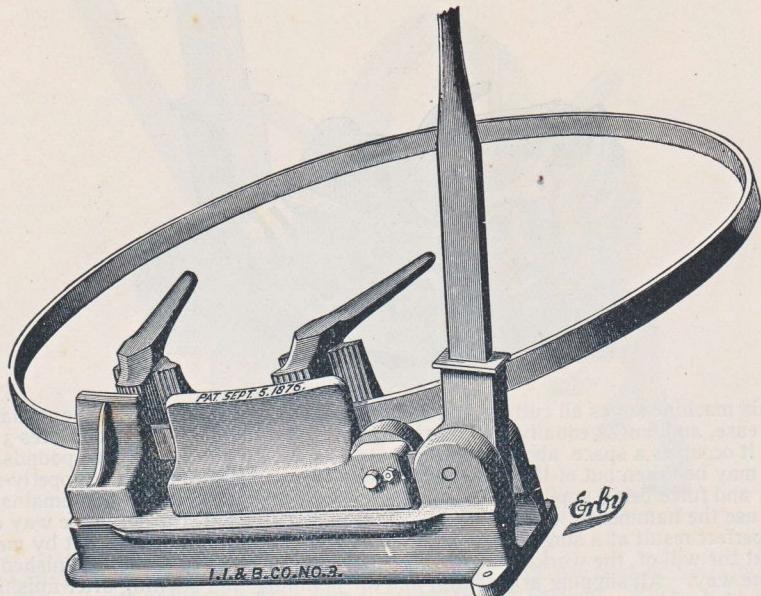
No. 1 Green River, Horizontal \$20.00.

New Green River Upright Tire Shrinkers--Improved.



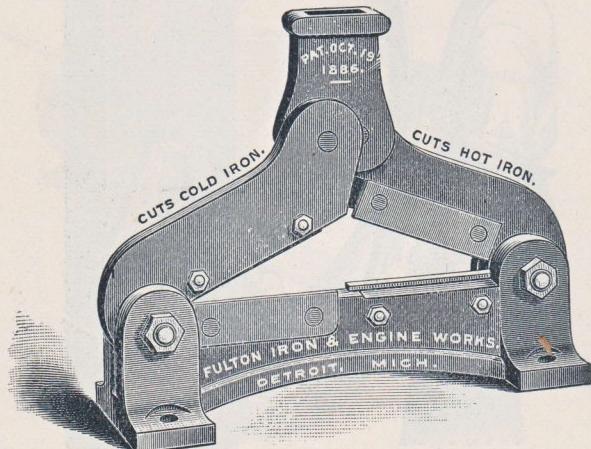
These Shrinkers will work as easily and satisfactorily as our well-known horizontal machine, and will do somewhat heavier work. The gripping cams standing open to receive the work, are adjusted instantly to the tire, and are readily withdrawn to release it after the operation. No. 2 Shrinkers have bent handles, so that the machine may be placed as near the floor as desired.

No. 0 Green River, Upright, for tires large as $\frac{3}{8} \times 2$ inch. \$15.00.
No. 2 " " " " " " I x 4 inch 22.50.

I. I. & B. TIRE SHRINKER.

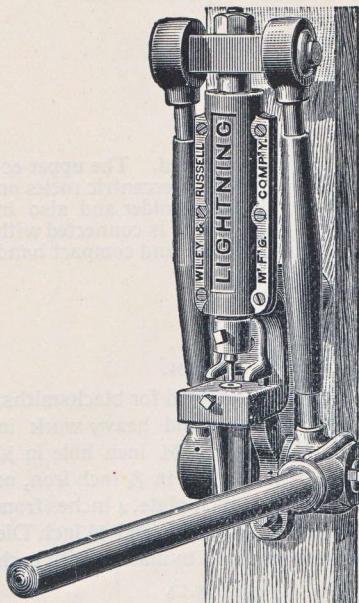
This Tire Shrinker is especially intended for heavy work, and will shrink Tire 4 inches wide or smaller. All parts are made very strong and will withstand a great amount of wear.

No. 3, I. I. & B. Shrinker \$16.00.

THE DETROIT IRON SHEARS.

This is a new departure. It is powerful but simple compound lever machine, made especially for use of shops and merchants who have occasion to cut iron bars. It will cut $\frac{7}{8}$ inch round or square bar, and $4 \times \frac{1}{2}$ inch cold. Hot up to $2\frac{1}{2}$ inch, or $4 \times 1\frac{1}{2}$ inch. We furnish a lever end to fit the socket, on which a bar can be welded for a handle.

Detroit Iron Shears \$25.00.



LIGHTNING PUNCHING PRESS.

No. 1.

Will punch $\frac{1}{4}$ inch round hole in iron $\frac{1}{4}$ inch thick, or $\frac{5}{16}$ inch round hole in iron $\frac{3}{16}$ inch thick. It will punch as far as $1\frac{1}{2}$ inches from edge of the work. Supplied with Punches and Dies, $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ inch. Unless otherwise ordered, Punches and Dies will be supplied $\frac{1}{32}$ inch over exact sizes.

The handle may be set at any angle, up or down, to suit various kinds of work.

This Machine is carefully made throughout, of the best material, and is highly approved by our customers.

No. 1 Machine, complete..... \$25.00.

Extra Punches or Dies, 50c each.

LIGHTNING PUNCHING PRESS.

No. 2.

Will punch $\frac{1}{2}$ inch hole in iron $\frac{5}{16}$ inch thick as far $3\frac{1}{2}$ inches from edge of work. For convenience in using the larger sizes of Punches and Dies, the ratchet may be brought into play by throwing in the dog. Two handles.

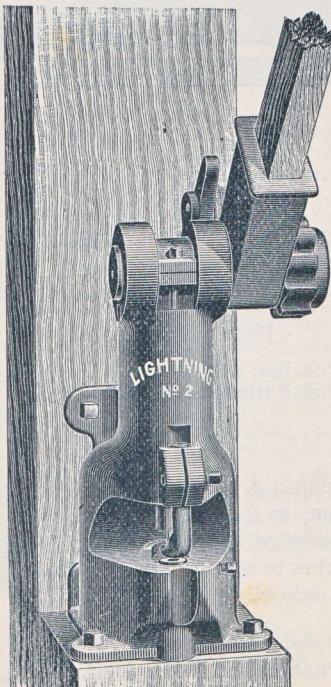
Unless otherwise ordered, Punches and Dies will be supplied $\frac{1}{32}$ inch over exact sizes.

PRICES WITH PUNCHES AND DIES:

No. 2 Machine, with sizes $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ inch.....	\$45.00
No. 2 Machine, with sizes $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ inch.....	47.50

Extra Punches, 50c each.

Extra Dies, 75c each.



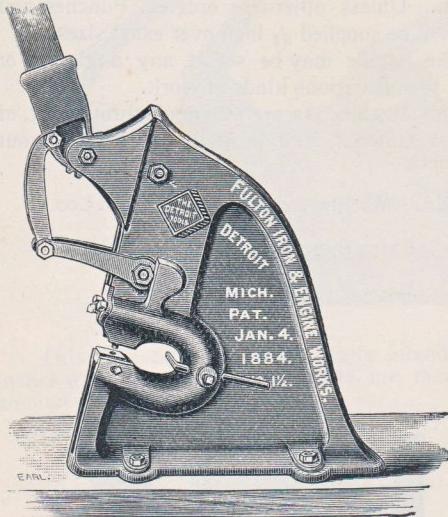
THE DETROIT RICE HAND PUNCH.

MOST PERFECT AND PRACTICAL PUNCH IN USE.

MOST POWERFUL PUNCH IN THE MARKET.

DESCRIPTION.

They obtain their power by double leverage and eccentric combined. The upper eccentric is provided with socket for handle, as shown in cut. The lower eccentric rocks on tool holder, which works in a groove, with steel pin passing through holder and also in the frame, one end fulcrumed in frame and the other joined to bar, which is connected with upper eccentric, thus keeping it in gear and making it the most durable and compact hand power in use.



No. 1 1/2.

Is especially adapted for blacksmiths, punching steel tire and heavy work in general. Will punch $\frac{3}{8}$ inch hole in $\frac{1}{4}$ inch iron, $\frac{5}{8}$ inch hole in $\frac{1}{16}$ inch iron, or $\frac{3}{4}$ inch hole in $\frac{1}{8}$ inch plate, 4 inches from edge. We furnish $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ inch Die Plates, with Punches to match, with each Machine.

Price..... \$28.00.

Extra Punches, $\frac{3}{16}$ to $\frac{1}{2}$, each, .60.

" " $\frac{5}{16}$ to 1, " .70.

" Punch Blocks, " \$1.00.

No. 0.

Will punch $\frac{1}{4}$ inch hole in $\frac{1}{8}$ inch iron, $2\frac{1}{4}$ inches from edge to center of hole. Will furnish $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ inch Die Plate, with each Machine.

Price..... \$10.00.

Extra Punches, each, .35.

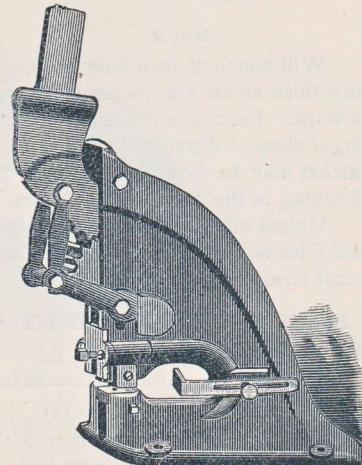
Extra Punch Blocks, 3 holes, each, .45.

No. 1.

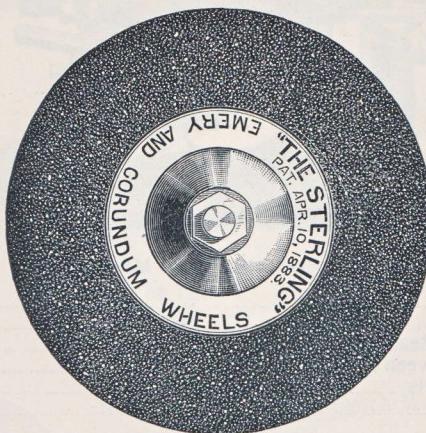
Will punch $\frac{3}{16}$ inch hole in $\frac{3}{16}$ inch iron, $\frac{5}{16}$ in $\frac{1}{8}$ inch iron, or $\frac{1}{2}$ inch in No. 14 wire gauge, 3 inches from edge. Will furnish $\frac{1}{8}$, $\frac{3}{16}$ or $\frac{1}{4}$ Dies, with Punches to match, with each Machine, unless otherwise ordered.

Price..... \$15.00.

Extra Punches and Punch Blocks, each, .45.



Emery and Corundum Wheels.

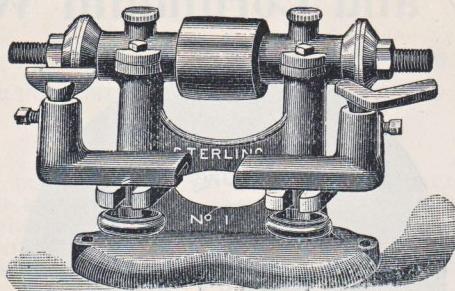


**STANDARD PRICE LIST
EMERY AND CORUNDUM WHEELS.**

Diameter in Inches.	THICKNESS IN INCHES.												Revolutions per minute.
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	
1	\$.30	\$.35	\$.40	\$.40	\$.45	\$.50	\$.55	\$.60	\$.65	\$.70	\$.75	\$.80	18,000
1 $\frac{1}{2}$	.40	.45	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	14,000
2	.50	.55	.55	.60	.65	.70	.75	.80	.85	.90	.95	1.00	10,000
2 $\frac{1}{2}$	.65	.70	.75	.85	.95	1.05	1.15	1.25	1.35	1.45	1.55	1.65	8,500
3	.80	.90	.95	1.10	1.25	1.40	1.55	1.70	1.85	2.00	2.15	2.30	7,000
3 $\frac{1}{2}$	.95	1.05	1.15	1.35	1.55	1.75	1.95	2.15	2.35	2.55	2.75	2.95	6,035
4	1.10	1.25	1.35	1.60	1.85	2.10	2.35	2.60	2.85	3.10	3.35	3.60	5,300
4 $\frac{1}{2}$	1.25	1.40	1.55	1.85	2.15	2.45	2.75	3.05	3.35	3.65	3.95	4.25	4,700
5	1.40	1.60	1.80	2.20	2.60	3.00	3.40	3.80	4.20	4.60	5.00	5.40	4,200
6	1.75	2.10	2.40	3.05	3.70	4.35	5.00	5.65	6.30	6.95	7.60	8.25	3,500
7	2.15	2.60	3.00	3.85	4.70	5.55	6.40	7.25	8.10	8.95	9.80	10.65	3,000
8	2.60	3.10	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.60	11.60	12.60	2,600
9	3.10	3.70	4.25	5.40	6.55	7.70	8.85	10.00	11.15	12.30	13.45	14.60	2,300
10	3.65	4.35	5.00	6.35	7.70	9.05	10.40	11.75	13.10	14.45	15.80	17.15	2,100
12	4.60	5.50	6.35	8.10	9.85	11.60	13.35	15.10	16.85	18.60	20.35	22.10	1,750
14	6.25	7.35	8.45	10.65	12.85	15.05	17.25	19.45	21.05	23.85	26.05	28.25	1,500
16				10.85	13.70	16.55	19.40	22.25	25.10	27.95	30.80	33.65	36.50
18				13.25	17.00	20.75	24.50	28.25	32.00	35.75	39.50	43.25	47.00
20					20.25	24.75	29.25	33.75	38.25	42.75	47.25	51.75	56.25
22					25.00	31.00	37.00	43.00	49.00	55.00	61.00	67.00	73.00
24					29.00	36.00	43.00	50.00	57.00	64.00	71.00	78.00	85.00
26						43.00	51.00	59.00	67.00	75.00	83.00	91.00	99.00
28							56.00	65.00	74.00	83.00	93.00	103.00	111.00
30							61.00	72.00	83.00	94.00	105.00	116.00	127.00
36							95.00	110.50	126.00	141.50	157.00	172.50	188.00

Thinner Wheels at same price as $\frac{1}{2}$ inch.

In ordering, give diameter, thickness, size of hole for mandrel, and state the use for which Wheel is desired.

EMERY GRINDING MACHINES.

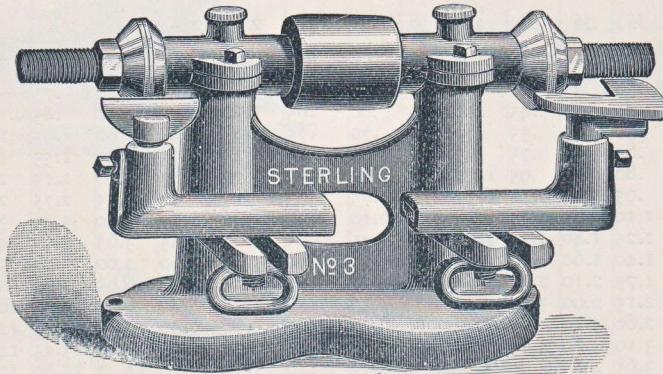
No. 1 Sterling Bench Machine.

Bench Space.....	10 x 5 inches.
Length of Spindle	13 "
Diameter of Spindle in Bearings	1 $\frac{3}{16}$ "
Diameter of Spindle between Flanges	1 $\frac{1}{4}$ "
Distance between Wheels	8 $\frac{1}{2}$ "
Length of Bearings	2 $\frac{3}{4}$ "
Diameter of Flanges	2 $\frac{1}{2}$ "
Height, Bench to center of Spindle	7 "
Size of Pulley on Spindle	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ "
Weight	25 lbs.

Will run two wheels 10 x 1 inches.

No. 1 Sterling Bench Machine, without Countershaft.....	\$12.00
Countershaft.....	11.00

Price does not include Wheels.



No. 3 Sterling Bench Machine--Tight and Loose Pulleys.

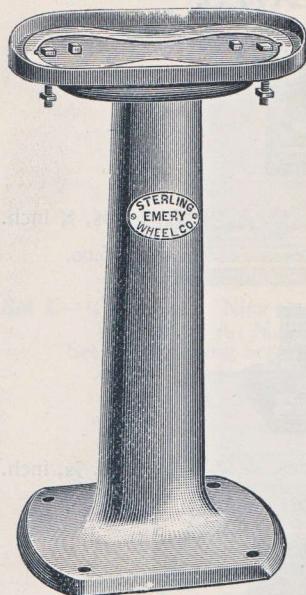
Bench Space.....	15 x 7 inches.
Length of Spindle	20 "
Diameter of Spindle in Bearings	1 $\frac{1}{16}$ "
Diameter of Spindle between Flanges	1 "
Distance between Wheels	13 "
Length of Bearings	4 $\frac{1}{4}$ "
Diameter of Flanges	3 "
Height, Bench to center of Spindle	9 $\frac{1}{2}$ "
Size of Pulleys on Spindle	3 $\frac{1}{2}$ x 2 $\frac{1}{4}$ "

Weight

Will run two wheels 12 x 2 inches.

No. 3 Sterling Bench Machine, without Countershaft.....	\$16.00
Countershaft.....	12.00

Price does not include Wheels.



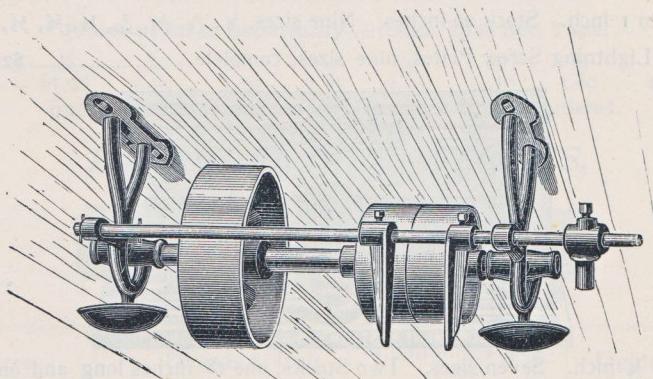
EMERY GRINDING MACHINES.

IRON COLUMN FOR No. 3 BENCH MACHINES.

Height	33 inches.
Size of Table	18 x 12 "
Floor Space	18 x 4 "
Weight	88 lbs.

Iron Column for No. 3 Bench Machine \$12.00

COUNTERSHAFTS.



For No. 1 Sterling Machine.

Drop of Hangers	7 inches.
Length of Spindle	"
Size of tight and loose Pulleys	24 "
Size of Driving Pulley	4 x 2 1/2 "
Weight	10 1/2 x 2 1/2 "

Weight 40 lbs.

Speed of Countershaft, 450 revolutions per minute.

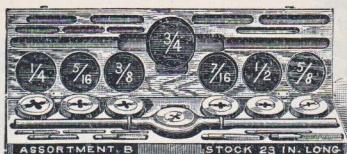
Countershaft for No. 1 Sterling Machine \$11.00

For No. 3 Sterling Machine.

Drop of Hangers	7 inches.
Length of Spindle	"
Size of tight and loose Pulleys	6 x 2 3/4 "
Size of Driving Pulley	10 1/2 x 3 1/4 "
Weight	60 lbs.

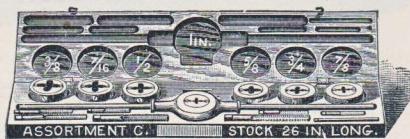
Speed of Countershaft, 450 revolutions per minute.

Countershaft for No. 3 Sterling Machine \$12.00

LIGHTNING SCREW PLATES.

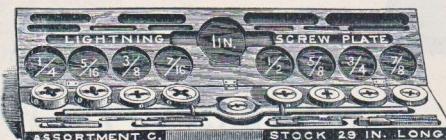
Set B— $\frac{1}{4}$ to $\frac{3}{4}$ inch. Stock 23 inches long. Seven sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.

Set B, Lightning Screw Plates, seven sizes, complete..... \$16.00.



Set C 7— $\frac{3}{8}$ to 1 inch. Stock 26 inches long. Seven sizes, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch.

Set C, Lightning Screw Plates, seven sizes, complete..... \$22.00.



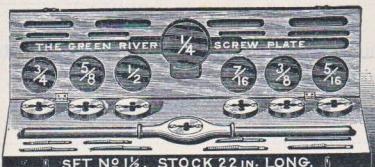
Set C 9— $\frac{1}{4}$ to 1 inch. Stock 29 inches. Nine sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch.

Set C, Lightning Screw Plates, nine sizes, complete..... \$25.50.



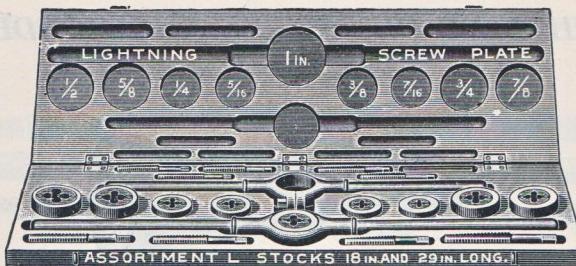
Set K— $\frac{1}{2}$ to $\frac{3}{4}$ inch. Seven sizes. Two Stocks, one 18 inches long and one 23 inches long. $\frac{1}{2}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch Taps, Dies and Collets.

Set K, Lightning Screw Plates, seven sizes, two stocks, complete..... \$18.00.

GREEN RIVER SCREW PLATES.

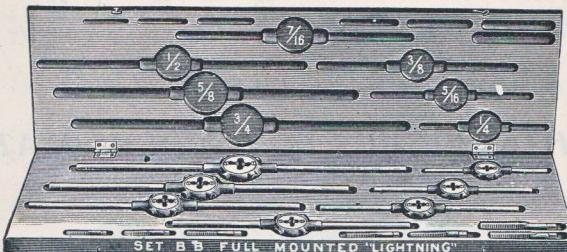
Set No. 1 1/2— $\frac{1}{4}$ to $\frac{3}{4}$ inch. Stock 22 inches long. Seven sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ inch Taps, Dies and Guides. Diameter of Dies, $2\frac{3}{16}$ inches.

No. 1 1/2, Green River Screw Plates, complete, in case..... \$13.00.

LIGHTNING SCREW PLATES.

Set L— $\frac{1}{4}$ to 1 inch. Nine sizes. Two stocks, one 18 inches long and one 29 inches long, and $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch Taps Dies and Collets.

Set L, Lightning Screw Plate, nine sizes, two stocks, complete.....\$27.50.



Set B B— $\frac{1}{4}$ to $\frac{3}{4}$ inch. Stock to each Die. Seven sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch. Set B B, Full Mounted Screw Plates, complete, in case \$18.00.

Prices of Sizes Separately--Stocks, Dies and Taps.

Inches.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$
Price	\$1.95	2.00	2.20	2.65	3.05	3.50	3.80	4.30	4.80

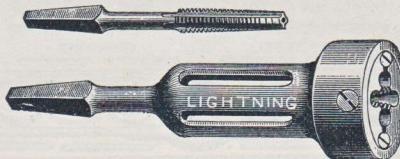
Supplied $\frac{1}{2}$ over size, V thread, unless otherwise ordered.

LIGHTNING TAPS AND DIES.

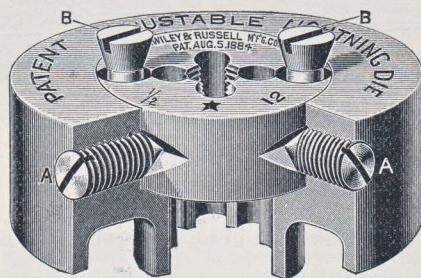
Sizes.	Threads to Inch.	Lightning Taper Taps.	Lightning Dies.
$\frac{3}{6}$	24,	\$.45	\$ 1.00
$\frac{1}{4}$	16, 18, 20,	.45	1.00
$\frac{5}{16}$	16, 18,	.50	1.00
$\frac{3}{8}$	14, 16, 18,	.55	1.15
$\frac{7}{16}$	12, 14, 16,	.60	1.30
$\frac{1}{2}$	12, 13, 14,	.70	1.50
$\frac{9}{16}$	12, 14,	.80	1.75
$\frac{5}{8}$	10, 11, 12,	.90	1.90
$\frac{11}{16}$	11, 12,	1.05	2.10
$\frac{3}{4}$	10, 12,	1.20	2.35
$\frac{13}{16}$	10,	1.40	2.60
$\frac{7}{8}$	9, 10,	1.60	3.00
$\frac{15}{16}$	9,	1.80	3.40
I	8,	2.00	3.75
$1\frac{1}{8}$	7, 8,	2.25	4.40
$1\frac{1}{4}$	7,	2.60	5.00
$1\frac{3}{8}$	6,	3.00	5.75
$1\frac{1}{2}$	6.	3.50	7.00

LIGHTNING DIES, TAPS AND HOLDERS.

For Use in Bit Brace.

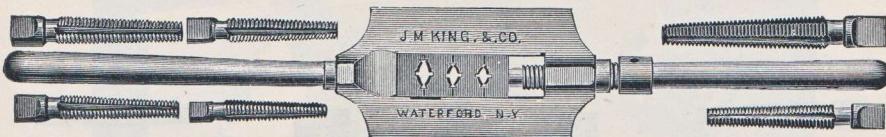


Sizes, inches	$\frac{3}{6}$	$\frac{1}{4}$	$\frac{5}{6}$	$\frac{3}{8}$	$\frac{7}{6}$
Die, Tap and Holder, complete	\$2.00	2.00	2.00	2.25	2.00
Die only	1.00	1.00	1.00	1.00	1.15
Tap only	.50	.50	.55	.60	.70
Holders, separately					.75

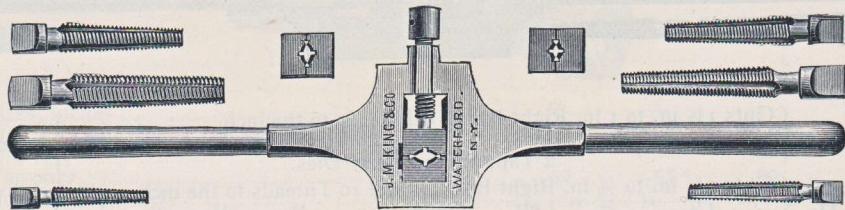
LIGHTNING DIES FOR SCREW PLATES.

Sizes.	Taps, Dies, and Collets.	Dies.	Taps.	Collets.	Threads to Inch.
For No. AA, B, C, K, L, and sizes $\frac{3}{4}$ to $\frac{3}{4}$ of No. D and B Plate.					
$\frac{3}{6}$	\$1.77	\$1.00	.45	.50	24,
$\frac{1}{4}$	1.77	1.00	.45	.50	16, 18, 20,
$\frac{5}{6}$	1.80	1.00	.50	.50	16, 18,
$\frac{3}{8}$	1.98	1.15	.55	.50	14, 16, 18,
$\frac{7}{6}$	2.16	1.30	.60	.50	12, 14, 16,
$\frac{9}{6}$	2.42	1.50	.70	.50	12, 13, 14,
$\frac{2}{3}$	2.73	1.75	.80	.50	12, 14,
$\frac{2}{3}$	2.04	1.90	.90	.50	10, 11, 12,
$\frac{11}{6}$	3.23	2.10	1.05	.50	11, 12,
$\frac{24}{6}$	3.57	2.35	1.20	.50	10, 12,
$\frac{13}{6}$	3.94	2.60	1.40	.50	10,
$\frac{7}{6}$	4.46	3.00	1.60	.50	9, 10,
$\frac{15}{6}$	4.98	3.40	1.80	.50	9,
I	5.45	3.75	2.00	.50	8,
For No. D and sizes $\frac{3}{4}$ to $1\frac{1}{2}$ in D and B.					
$\frac{7}{8}$	4.06	3.00	1.60	1.00	9, 10,
$\frac{15}{6}$	5.48	3.40	1.80	1.00	9,
I	5.95	3.75	2.00	1.00	8,
$1\frac{1}{8}$	6.75	4.40	2.25	1.00	7, 8,
$1\frac{1}{4}$	7.56	5.00	2.00	1.00	7,
$1\frac{3}{8}$	8.55	5.75	3.00	1.00	6,
$1\frac{1}{2}$	10.10	7.00	3.50	1.00	6,

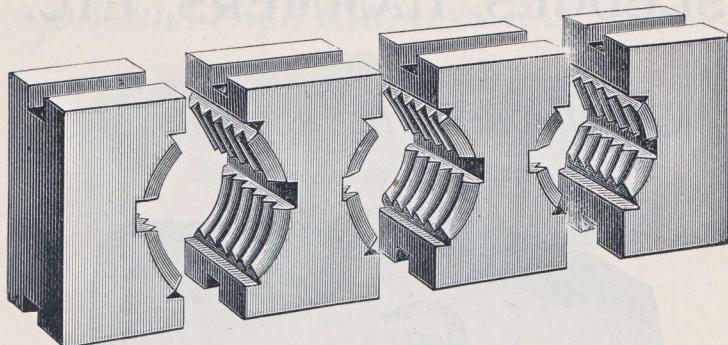
These Dies and Taps will be sent $\frac{1}{2}$ over size (for rough iron), with threads indicated by the heavy type, V form, unless otherwise ordered.

BLACKSMITHS' STOCKS AND DIES.

No. 6.	{ Cuts $1\frac{1}{2}$ in. to 1 in. Right Hand, 8 Threads to the inch. " $1\frac{1}{2}$ " 1 " Left " 8 " " 4 Taps and 2 Sets of Dies.	}	\$20.00
No. 11.	{ Cuts $1\frac{1}{4}$ in. to $\frac{5}{8}$ in. Right Hand, 8 and 10 Threads to the inch. " $1\frac{1}{4}$ " $\frac{5}{8}$ " Left " 8 " " 4 Taps and 2 Sets of Dies.	}	10.00
No. 15.	{ Cuts $1\frac{1}{4}$ in. to $\frac{1}{2}$ in. Right Hand, 8, 10 and 12 Threads to the inch. " 1 " $\frac{3}{4}$ " Left " 9 " " 5 Taps and 3 Sets of Dies.	}	10.00
No. 21.	{ Cuts 1 in. to $\frac{1}{2}$ in. Right Hand, 9 and 12 Threads to the inch. " 1 " $\frac{3}{4}$ " Left " 9 " " 4 Taps and 3 Sets of Dies.	}	6.00
No. 23.	{ Cuts 1 in. to $\frac{3}{8}$ in. Right Hand, 9, 10 and 14 Threads to the inch. " 1 " $\frac{3}{4}$ " Left " 10 and 14 " " 3 Taps and 3 Sets of Dies.	}	5.00
No. 32.	{ Cuts $\frac{3}{4}$ in. to $\frac{3}{8}$ in. Right Hand, 10 and 14 Threads to the inch. " $\frac{3}{4}$ " $\frac{3}{8}$ " Left " 10 and 14 " " 4 Taps and 4 Sets of Dies.	}	5.00
No. 33.	{ Cuts $\frac{3}{4}$ in. to $\frac{1}{2}$ in. Right Hand, 10 Threads to the inch. " $\frac{3}{4}$ " $\frac{1}{2}$ " Left " 10 " " 2 Taps and 2 Sets of Dies.	}	4.00
No. 34.	{ Cuts $\frac{3}{4}$ in. to $\frac{5}{16}$ in. Right Hand, 10, 12 and 16 Threads to the inch. " $\frac{3}{4}$ " $\frac{5}{16}$ " Left " 10, 12 and 16 " " 3 Taps and 3 Sets of Dies.	}	4.50
No. 34 A.	{ Cuts $\frac{3}{4}$ in. to $\frac{5}{16}$ in. Right Hand, 10, 12 and 14 Threads to the inch. " $\frac{3}{4}$ " $\frac{5}{16}$ " Left " 10, 12 and 14 " " 3 Taps and 3 Sets of Dies.	}	4.50
No. 34 B.	{ Cuts $\frac{3}{4}$ in. to $\frac{5}{16}$ in. Right Hand, 12, 14 and 16 Threads to the inch. " $\frac{3}{4}$ " $\frac{5}{16}$ " Left " 12, 14 and 16 " " 3 Taps and 3 Sets of Dies.	}	4.50
No. 35.	{ Cuts $\frac{3}{4}$ in. to $\frac{3}{8}$ in. Right Hand, 10 and 14 Threads to the inch. " $\frac{3}{4}$ " $\frac{3}{8}$ " Left " 10 and 14 " " 2 Taps and 2 Sets of Dies.	}	4.00
No. 37.	{ Cuts $\frac{5}{8}$ in. to $\frac{3}{8}$ in. Right Hand, 14, 18 and 22 Threads to the inch. " $\frac{5}{8}$ " $\frac{3}{8}$ " Left " 14, 18 and 22 " " 6 Taps and 3 Sets of Dies.	}	4.25
No. 37 A.	{ Cuts $\frac{5}{8}$ in. to $\frac{3}{8}$ in. Right Hand, 12, 14 and 16 Threads to the inch. " $\frac{5}{8}$ " $\frac{3}{8}$ " Left " 12, 14 and 16 " " 6 Taps and 3 Sets of Dies.	}	4.25
No. 37 B.	{ Cuts $\frac{5}{8}$ in. to $\frac{3}{8}$ in. Right Hand, 14, 16 and 18 Threads to the inch. " $\frac{5}{8}$ " $\frac{3}{8}$ " Left " 14, 16 and 18 " " 6 Taps and 3 Sets of Dies.	}	4.25
No. 38.	{ Cuts $\frac{5}{8}$ in. to $\frac{5}{16}$ in. Right Hand, 12 and 18 Threads to the inch. " $\frac{5}{8}$ " $\frac{5}{16}$ " Left " 12 " " 6 Taps and 3 Sets of Dies.	}	4.50
No. 41.	{ Cuts $\frac{1}{2}$ in. to $\frac{5}{8}$ in. Right Hand, 16, 20 and 26 Threads to the inch. " $\frac{1}{2}$ " $\frac{5}{8}$ " Left " 16, 20 and 26 " " 6 Taps and 3 Sets of Dies.	}	3.25
No. 41 A.	{ Cuts $\frac{1}{2}$ in. to $\frac{5}{8}$ in. Right Hand, 14, 16 and 18 Threads to the inch. " $\frac{1}{2}$ " $\frac{5}{8}$ " Left " 14, 16 and 18 " " 6 Taps and 3 Sets of Dies.	}	3.25
No. 41 B.	{ Cuts $\frac{1}{2}$ in. to $\frac{5}{8}$ in. Right Hand, 16, 18 and 20 Threads to the inch. " $\frac{1}{2}$ " $\frac{5}{8}$ " Left " 16, 18 and 20 " " 6 Taps and 3 Sets of Dies.	}	3.25
No. 42.	{ Cuts $\frac{1}{2}$ in. to $\frac{3}{8}$ in. Right Hand, 14 and 20 Threads to the inch. " $\frac{1}{2}$ " $\frac{3}{8}$ " Left " 14 " " 6 Taps and 3 Sets of Dies.	}	3.50
No. 53.	{ Cuts $\frac{5}{16}$ in. to $\frac{1}{16}$ in. Right Hand, 16, 20, 24 and 32 Threads to the inch. " $\frac{5}{16}$ " $\frac{1}{16}$ " Left " 16, 20, 24 and 32 " " 4 Taps and 4 Sets of Dies.	}	2.75
No. 55.	{ Cuts $\frac{5}{16}$ in. to $\frac{1}{16}$ in. Right Hand, 18, 24 and 32 Threads to the inch. " $\frac{5}{16}$ " $\frac{1}{16}$ " Left " 18, 24 and 32 " " 4 Taps and 3 Sets of Dies.	}	2.50

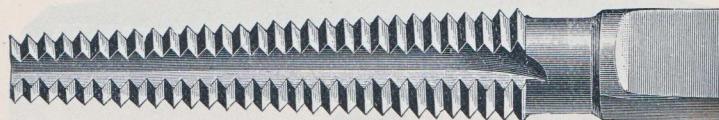
BLACKSMITHS' STOCKS AND DIES.

No. 1.	{ Cuts 2 in. to 1 in. Right Hand, 4½ and 7 Threads to the inch. " 2 " 1 " Left " 4½ and 7 " 8 Taps and 4 Pair of Dies.	}	\$60.00
No. 2.	{ Cuts 2 in. to ¾ in. Right Hand, 4½, 6, 7 and 8 Threads to the inch. " 8 Taps and 4 Pair of Dies.	}	60.00
No. 3.	{ Cuts 1¾ in. to ¾ in. Right Hand, 6 and 8 Threads to the inch. " 1¾ " ¾ " Left " 6 and 8 " 8 Taps and 4 Pair of Dies.	}	45.00
No. 4.	{ Cuts 1¾ in. to ¾ in. Right Hand, 6, 7, 8 and 9 Threads to the inch. " 8 Taps and 4 Pair of Dies.	}	45.00
No. 5.	{ Cuts 1½ in. to ¾ in. Right Hand, 8 and 9 Threads to the inch. " 1½ " ¾ " Left " 8 and 9 " 8 Taps and 4 Pair of Dies.	}	35.00
No. 5½.	{ Cuts 1½ in. to ¾ in. Right Hand, 6, 7, 8 and 9 Threads to the inch. " 8 Taps and 4 Pair of Dies.	}	35.00
No. 7.	{ Cuts 1¼ in. to ⅜ in. Right Hand, 8 and 10 Threads to the inch. " 1¼ " ⅜ " Left " 8 6 Taps and 3 Pair of Dies.	}	12.00
No. 9.	{ Cuts 1¼ in. to ½ in. Right Hand, 8, 10 and 12 Threads to the inch. " 6 Taps and 3 Pair of Dies.	}	12.00
No. 17.	{ Cuts 1 in. to ½ in. Right Hand, 9 and 12 Threads to the inch. " 1 " ½ " Left " 9 6 Taps and 3 Pair of Dies.	}	9.00
No. 19.	{ Cuts 1 in. to ⅜ in. Right Hand, 9, 12 and 14 Threads to the inch. " 6 Taps and 3 Pair of Dies.	}	9.00
No. 25.	{ Cuts ¾ in. to ⅜ in. Right Hand, 10 and 12 Threads to the inch. " ¾ " ½ " Left " 10 6 Taps and 6 Pair of Dies.	}	6.50
No. 27.	{ Cuts ¾ in. to ⅜ in. Right Hand, 10, 12 and 16 Threads to the inch. " 6 Taps and 3 Pair of Dies.	}	6.50
No. 45.	{ Cuts ⅜ in. to ⅕ in. Right Hand, 12 and 16 Threads to the inch. " ⅜ " ⅕ " Left " 12 6 Taps and 3 Pair of Dies.	}	5.50
No. 47.	{ Cuts ⅜ in. to ¼ in. Right Hand, 12, 14 and 18 Threads to the inch. " 6 Taps and 3 Pair of Dies.	}	5.50
No. 49.	{ Cuts ½ in. to ¼ in. Right Hand, 14 and 18 Threads to the inch. " ½ " ¼ " Left " 14 6 Taps and 3 Pair of Dies.	}	4.50
No. 51.	{ Cuts ½ in. to ⅕ in. Right Hand, 14, 18 and 22 Threads to the inch. " 6 Taps and 3 Pair of Dies.	}	4.50
No. 60.	{ Cuts ¾ in. to ⅜ in. Right Hand, 10, 12, 14 and 18 Threads to the inch. " 6 Taps and 4 Pair of Dies.	}	6.50

BLACKSMITHS' DRILLS.

COMPLETE SET OF DIES.

For No. 1 or 2 Stock	\$12.00	For No. 25, 27 or 32 Stock	\$2.25
" 3 or 4 "	10.00	" 33 "	1.50
" 5 or 5½ "	8.00	" 34 "	2.00
" 6 "	6.00	" 35, 37, 38, 41 or 42 Stock.....	1.50
" 7 or 9 "	3.50	" 45 or 47 Stock.....	2.25
" 11 or 15 "	3.00	" 49 or 51 "	2.00
" 17 or 19 "	2.50	" 53 or 55 "	1.50
" 21 or 23 "	2.00		

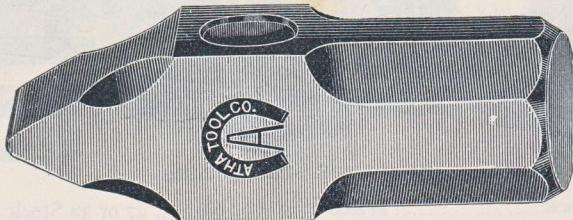
BLACKSMITHS' TAPER TAPS.

Size.	Hand.	Threads to Inch.	Taps in Box.	Each.
1½ inches.	R	6, 7, 8,	2	\$ 3.00
1½ "	L	6, 7, 8,	2	3.00
1¼ "	R	6; 7, 8, 9,	2	1.75
1¼ "	L	8, 9,	2	1.75
1 "	R	7, 8, 9, 10,	2	1.25
1 "	L	8, 9,	2	1.25
7/8 "	R	8, 9, 10,	4	.90
7/8 "	L	9,	4	.90
3/4 "	R	7, 8, 9, 10, 12, 14,	6	.65
3/4 "	L	10, 12,	6	.65
5/8 "	R	10, 11, 12, 14, 16,	6	.50
5/8 "	L	10, 12,	6	.50
9/16 "	R	10, 12, 14, 16,	6	.50
9/16 "	L	12,	6	.50
1/2 "	R	10, 12, 14, 16, 18,	6	.40
1/2 "	L	12, 14,	6	.40
7/16 "	R	10, 12, 14, 16, 18,	6	.40
7/16 "	L	14,	6	.40
3/8 "	R	10, 12, 14, 16, 18, 20,	6	.35
3/8 "	L	14, 16, 18, 20, 22,	6	.30
5/16 "	R	16, 18, 20, 22, 24, 26,	6	.30
5/16 "	L	24, 26, 28,	6	.30
1/4 "	R	30, 32,	6	.30

SLEDGES, HAMMERS, ETC.

BLACKSMITHS' SLEDGES.

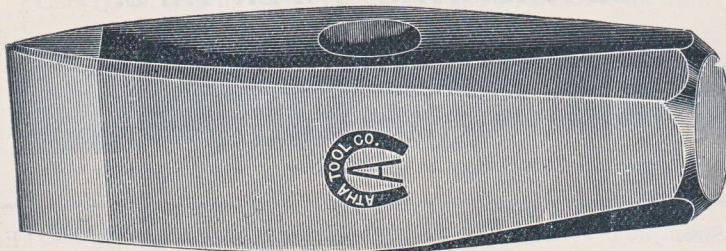
CROSS OR STRAIGHT PEIN.



Cross Pein.

Solid Cast Steel, weight under 3 lbs	List per lb., .45
" " " 3 to 5 lbs	" " .36
" " " 5 to 20 lbs	" " .30

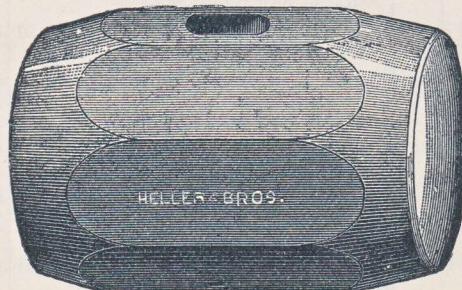
STONE SLEDGES.



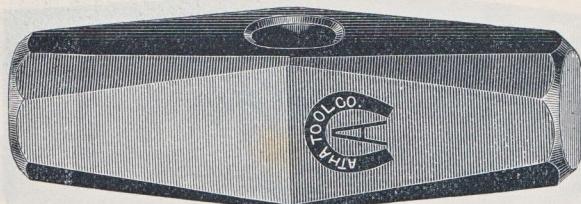
Straight Pein.

Solid Cast Steel, weight 5 to 20 lbs.....	List per lb., .30
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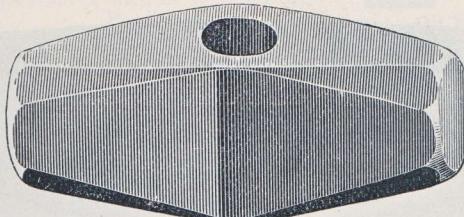
HELLER'S TURNING SLEDGE.



Solid Clay Crucible Cast Steel, 5 to 10 lbs	Per lb., .30
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DOUBLE-FACE STRIKING HAMMERS.

Colorado Pattern.



Oregon Pattern.

Solid Cast Steel, weight under 3 lbs	Per lb., .45
" " " " 3 to 5 lbs	" .40
" " " " 5 to 10 lbs	" .36

HAND DRILLING HAMMERS.

Solid Cast Steel, weight under 3 lbs	Per lb., .45
" " " " 3 to 5 lbs	" .40

BLACKSMITHS' HAND HAMMERS.

Black Finish. No Handles.

Solid Cast Steel, weight under 3 lbs	Per lb., .45
" " " " 3 to 5 lbs	" .36

SPALLING HAMMERS.

Single or Double Face.

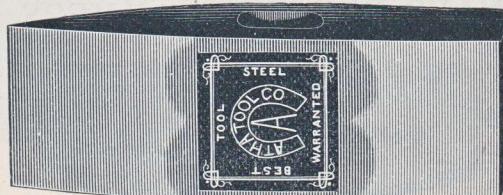


Single Face Spalling.



Double Face Spalling.

Solid Cast Steel, weight 8 to 20 lbs..... Per lb., .36

MASONS' HAMMERS.

Half Polished.

Solid Cast Steel, weight under 3 lbs	Per lb., .50
" " " " 3 to 5 lbs	" .45
" " " " 5 to 10 lbs	" .40

Blacksmiths' Cold and Hot Cutting Chisels.

Cold Cutting, Oil Finished.

Solid Cast Steel, weight 1 to 3 lbs Per lb., .40

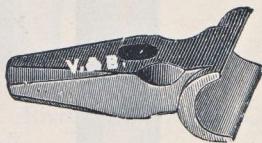


Hot Cutting, Oil Finished.

Solid Cast Steel, weight 1 to 3 lbs Per lb., .40

BLACKSMITHS' ANVIL TOOLS.

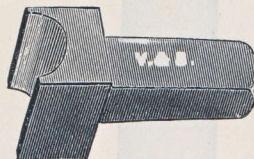
Blacksmiths' Top Swages.



Oil Finished.

Solid Cast Steel, Sizes from $\frac{1}{4}$ inch to 3 inches Per lb., .40

Blacksmiths' Bottom Swages.



Oil Finished.

Solid Cast Steel, Sizes from $\frac{1}{4}$ inch to 3 inches Per lb., .40

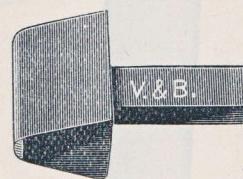
Blacksmiths' Top Fullers.



Oil Finished.

Solid Cast Steel, Assorted Sizes from $\frac{1}{4}$ inch to 3 inches Per lb., .40

Blacksmiths' Bottom Fullers.



Oil Finished.

Solid Cast Steel, Assorted Sizes from $\frac{1}{4}$ to 3 inches, Assorted Shanks from $\frac{3}{4}$ to $1\frac{1}{4}$ inches Per lb., .40

Blacksmiths' Flatters.



Oil Finished.

Solid Cast Steel, Sizes from 2 inch to 4 inches Per lb., .40

Blacksmiths' Set Hammers.



Oil Finished.

Solid Cast Steel, $1\frac{1}{4}$ to 2 inch Square Face Per lb., .40

Blacksmiths' Anvil Hardies.



Oil Finished.

Solid Cast Steel Per lb., .40

Blacksmiths' Punches.



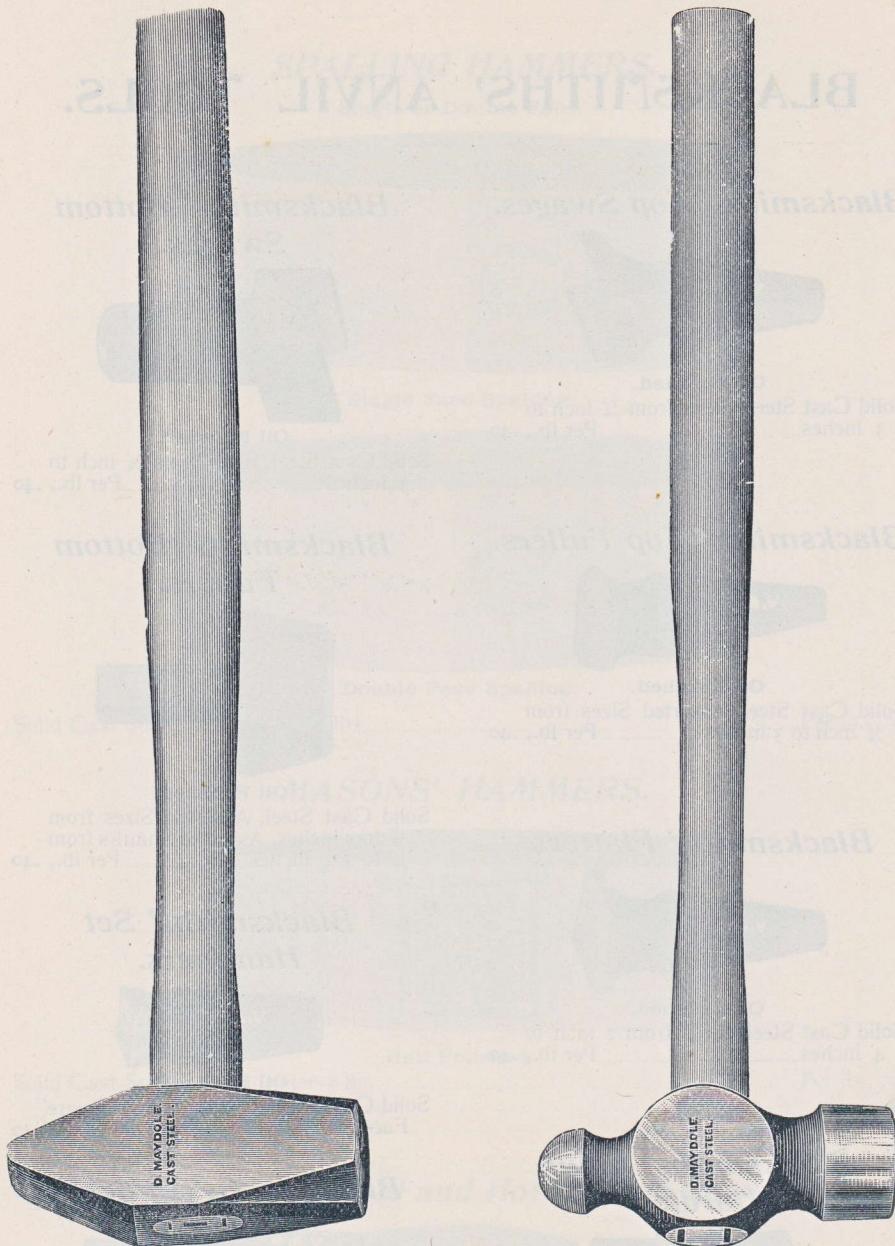
Round.

Solid Cast Steel, $\frac{3}{8}$ to 1 inch, Round or Square Per lb., .40

Heading Tools.



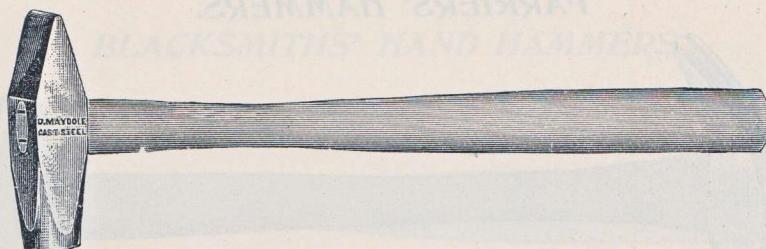
Solid Cast Steel, $\frac{1}{4}$ to 1 inch Per lb., .40

**MAYDOLE'S HAND HAMMERS.**

No. 61. Blacksmiths' Hand Hammer, Solid Cast Steel, 3 lbs....	Per doz., \$11.00
" 62. " " " " " 2 " 10 oz.....	10.00

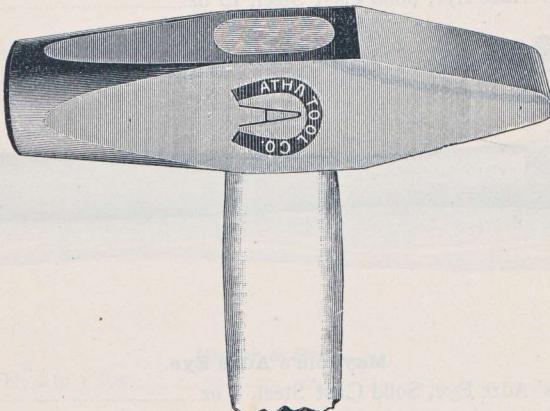
MAYDOLE'S BALL PEIN HAMMERS.

No. 70. Machinists' Ball Pein, Solid Cast Steel, 3 lbs.....	Per doz., \$15.00
" 70½. " " " " " 2 " 4 oz.....	13.00
" 71. " " " " " 1 " 14 oz.....	11.50
" 72. " " " " " 1 " 8 oz.....	10.50
" 73. " " " " " 1 " 4 oz.....	9.50
" 74. " " " " " 1 " 0 oz.....	9.00
" 75. " " " " " 12 oz.....	8.50

RIVETING HAMMERS.

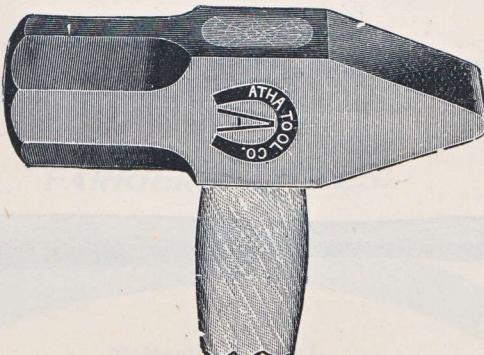
Maydole's.

No. 40.	Riveting, Extra Solid Cast Steel, 1 lb.	8 oz	Per doz., \$6.00
" 41.	" "	" 1 "	" 5.00
" 42.	" "	" 12 oz	" 4.25
" 43.	" "	" 7 oz	" 3.50
" 44.	" "	" 4½ oz	" 3.00

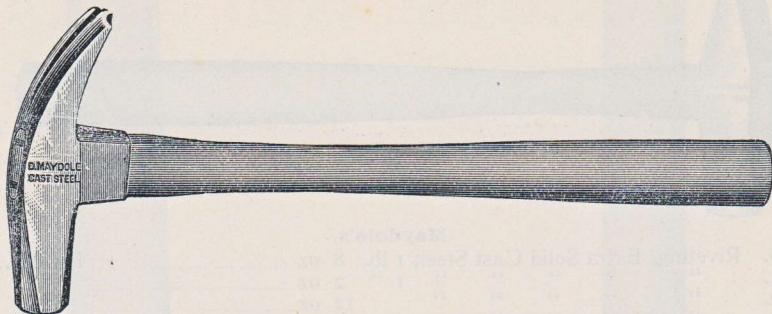


Atha Tool Co.'s.

No. o.	Riveting, Solid Cast Steel	6 oz.	Per doz., \$5.50
" 1.	" "	9 oz.	" 5.75
" 2.	" "	12 oz.	" 6.00
" 3.	" "	1 lb. 0 oz.	" 6.25
" 4.	" "	1 " 3 oz.	" 6.50
" 5.	" "	1 " 6 oz.	" 7.00
" 6.	" "	1 " 9 oz.	" 7.50
" 7.	" "	2 " 0 oz.	" 8.00

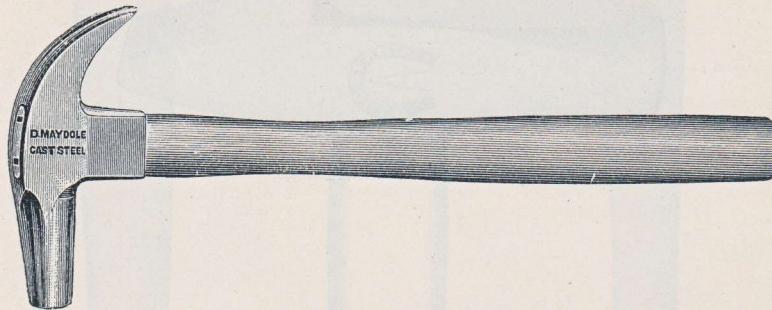
ATHA PLOW HAMMERS.

No. o.	Solid Cast Steel, Black Finish, 1 lb.	2 oz	Per doz., \$12.00
No. i.	" "	" 1 "	" 13.00

FARRIERS' HAMMERS.

Maydole's Boston Pattern.

No. 152. Farriers' Adze Eye, Solid Cast Steel, 10 oz..... Per doz., \$6.00



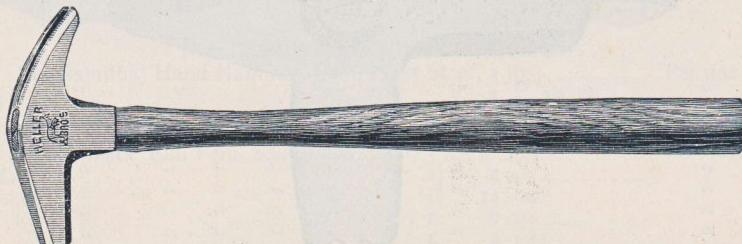
Maydole's Adze Eye.

No. 153. Farriers' Adze Eye, Solid Cast Steel, 8 oz Per doz., \$5.00



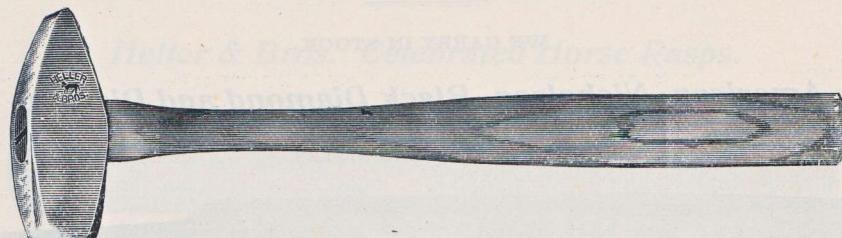
Heller's Pattern.

Farriers' Driving Hammer, 13 to 20 oz Per doz., \$12.50



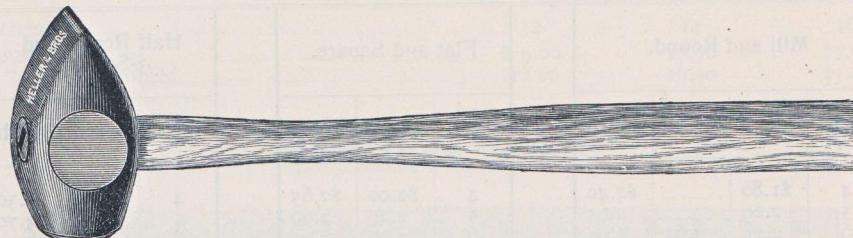
Heller's.

Farriers' Driving Hammer, 11 to 20 oz Per doz., \$10.00

BLACKSMITHS' HAND HAMMERS.

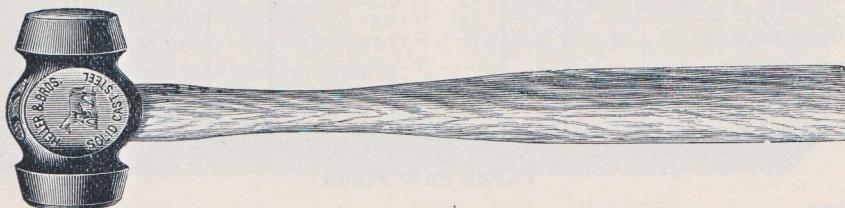
Heller & Bros.

Blacksmiths' Hand Hammers, 2 to 3 lb..... Per doz., \$13.00

CAT'S HEAD OR TURNING HAMMER.

Heller & Bros.

Crucible Cast Steel, 2 to 3 lbs..... Per doz., \$24.00

ROUNDING HAMMERS.

Heller & Bros.

Crucible Cast Steel, 2 to 3 lbs..... Per doz., \$24.00

FARRIERS' KNIVES.

Wostenholm's I X L.

I X L Farriers' Knives..... Per doz., \$5.00
I X L Farriers' Searchers, Narrow Blades..... " 5.00

FILES.

WE CARRY IN STOCK

American, Nicholson, Black Diamond and Disston,

IN ALL SIZES AND STYLES.



Mill Bastard.

REVISED LIST--FILES.

December 1, 1885.

Mill and Round.				Flat and Square.			Half Round and 3-Square.		
Inch.	Bast'd.	2d Cut.	Sm'th.	Inch.	Bast'd.	Sm'th.	Inch.	Bast'd.	Sm'th.
4	\$1.80		\$2.40	4	\$2.00	\$2.65	4	\$2.50	\$3.30
5	2.00		2.65	5	2.20	2.90	5	2.80	3.70
6	2.25	2.65	2.95	6	2.50	3.25	6	3.20	4.15
7	2.55	3.00	3.30	7	2.90	3.75	7	3.70	4.80
8	2.90	3.40	3.70	8	3.40	4.35	8	4.30	5.50
9	3.30	3.85	4.20	9	4.00	5.10	9	5.00	6.40
10	3.80	4.40	4.80	10	4.70	5.90	10	5.80	7.30
11	4.50	5.20		11	5.60	7.05	11	6.70	
12	5.40	6.20		12	6.70	8.40	12	7.80	
13	6.50			13	8.00		13	9.10	
14	7.80			14	9.50		14	10.60	
15	9.30			15	11.21		15	12.40	
16	11.00			16	13.10		16	14.50	
.....
.....
.....

TAPER SAW FILES.

Inches.....	3	3½	4	4½	5	5½	6	7	8	9	10
Tapers, Double Cut.....	\$1.60	1.60	1.75	2.00	2.40	2.75	3.25	4.00	4.95	5.90	7.10
Slim Tapers, Double Cut.....	1.80	1.80	1.90	2.10	2.40	2.60	2.85	3.30	3.90	4.70	5.60

WOOD FILES AND RASPS.

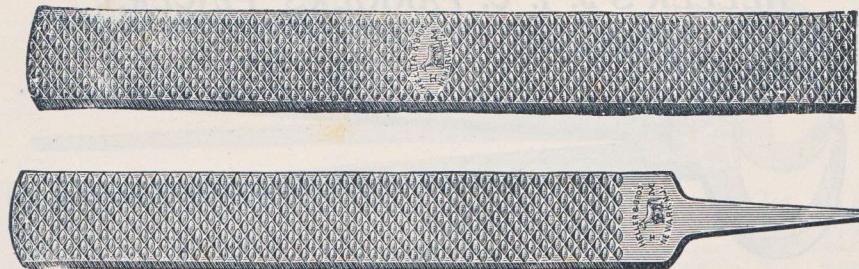
Inches.....	6	8	10	12	14	16
Wood Rasps, Half Round and Flat.....	\$4.20	6.10	8.75	12.30	16.90	22.50
Cabinet { Rasps.....	6.00	8.20	11.20	15.00	19.60	25.00
Files.....	4.20	6.10	8.75	12.30	16.90	22.50



Flat Bastard.

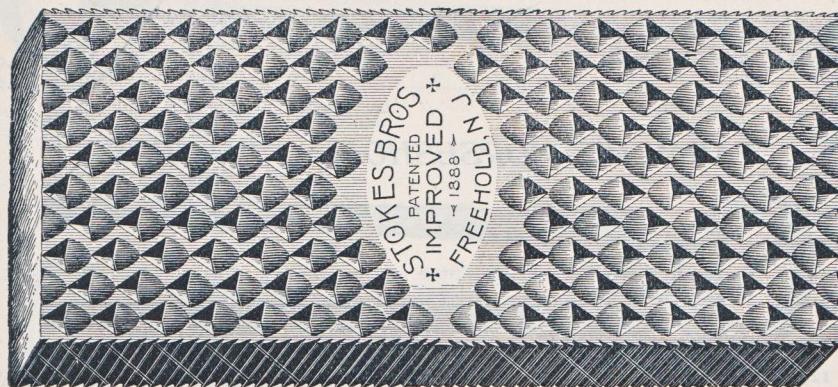
HORSE RASPS.

Heller & Bros.' Celebrated Horse Rasps.



Inches	12	14	16
Horse Rasps.....	\$ 9.00	12.70	17.60
" " tanged	12.00	16.50	23.00

Stokes Bros.' Rasps.



Inches	12	14	16
List per doz.....	\$ 9.00	12.70	17.60

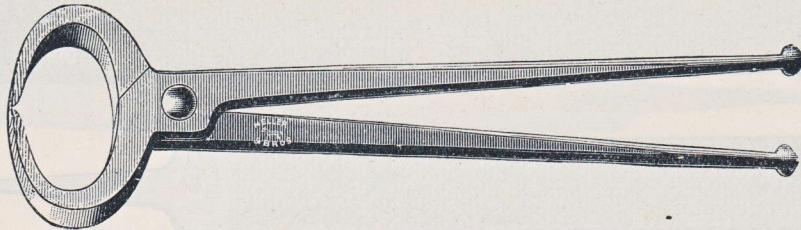
BLACKSMITHS' STRAIGHT LIP TONGS.



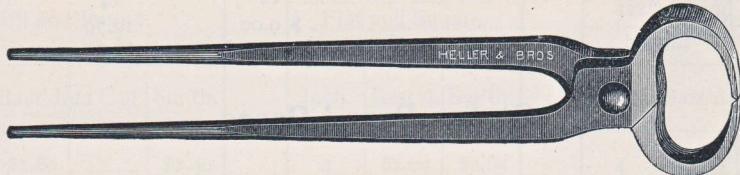
Inches	18	20	22	24	26
Weight per pair.....	lbs., 1 3/4	2 1/2	3	3 1/2	4
Price per lb., .....			.20		

FARRIERS' TOOLS.

HELLER'S J. I. C. FARRIERS' PINCERS.



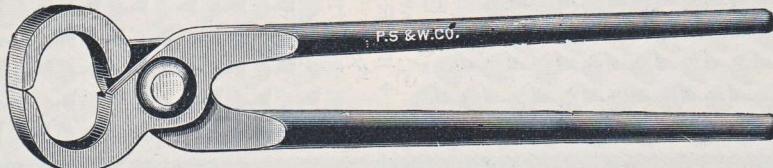
14 inch, Crucible Cast Steel.....	Per doz., \$24.00
16 " " " "	" 30.00



Heller's Regular Pattern.

12 inch, Crucible Cast Steel.....	Per doz., \$15.00
13 " " " "	" 16.00

FARMER'S HORSESHOEING PINCERS.



No. 12, 12 inch, Cast Steel.....	Per doz., \$10.00
No. 14, 14 inch " " "	" 12.00

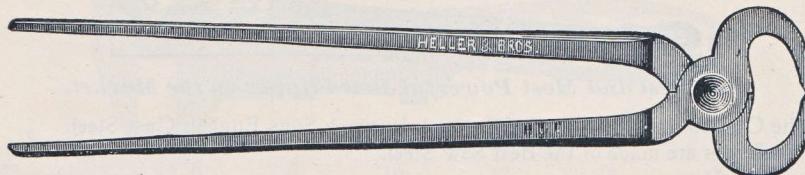
P. S. & W. CO'S BLACKSMITHS' PINCERS.



No. 32, 12 inch, Solid Cast Steel.....	Per doz., \$14.00
No. 34, 14 inch, " " " "	" 16.00

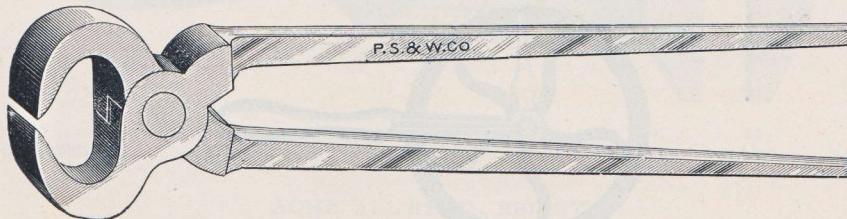
FARRIERS' TOOLS.

HELLER'S CUTTING NIPPERS.



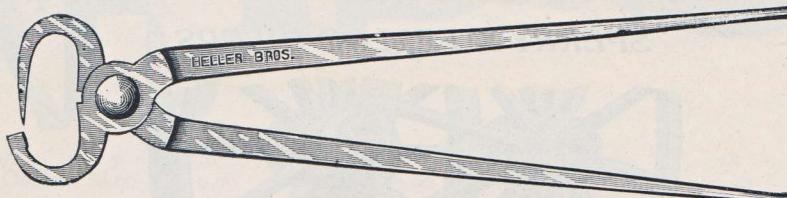
8 inch, Crucible Cast Steel.....	Per doz., \$14.00
10 " " " "	" 16.00
12 " " " "	" 20.00
14 " " " "	" 24.00

P. S. & W. Co's Blacksmiths' Cutting Nippers.



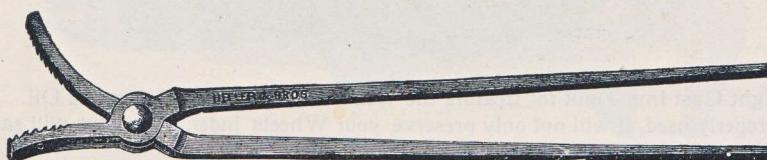
No. 22, 12 inch, Solid Steel, Full Polished.....	Per doz., \$15.00
No. 23, 14 " " " "	" 18.00

HELLER'S HOOF PARERS.

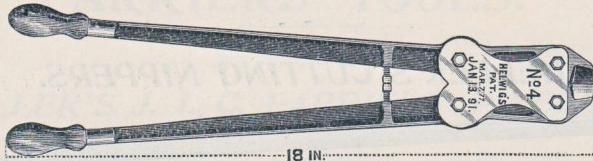


12 inch, Crucible Cast Steel.....	Per doz., \$20.00
14 " " " "	" 24.00

HELLER'S CLINCH TONGS.



14 inch, Crucible Cast Steel.....	Per doz., \$22.00
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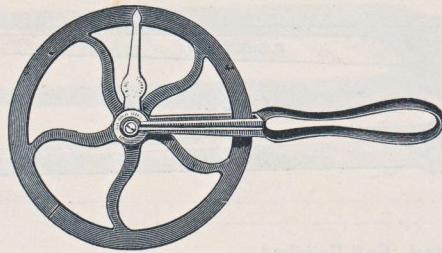
HELWIG'S PATENT BOLT AND RIVET CLIPPERS.

The Best and Most Powerful Bolt Clipper on the Market.

The Cutters are drop-forged of the best Jessop & Sons English Cast Steel.
The Plates are made of the Best Saw Steel.

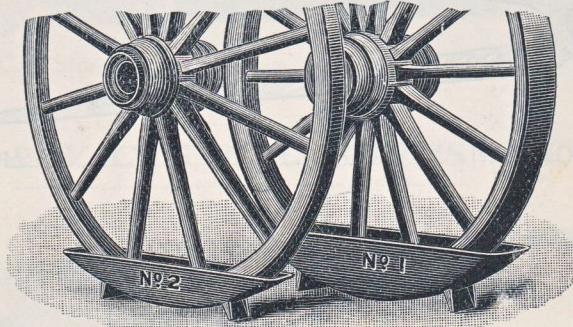
All Parts are Interchangeable.

No. 4. Weight, 2 lbs. Length, 18 inches. Cuts Bolt $\frac{5}{16}$ inch.....	Each, \$5.00
No. 3. " $4\frac{1}{2}$ " " 24 " " $\frac{7}{16}$ "	" 6.00
No. 2. " 8 " " 32 " " $\frac{9}{16}$ "	" 7.00

GREEN RIVER TIRE-MEASURING WHEELS--Plain.

A perfect-running Wheel, turned carefully in a Lathe.
The Wheel is a Drop-Forging.

Green River Tire-Measuring Wheel..... Each, \$1.25

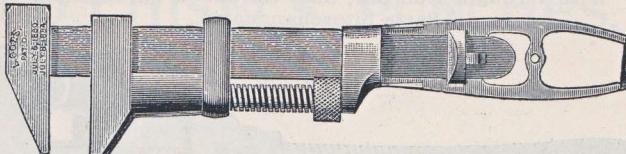
SPERRY'S FELLOE OILERS.

A light Cast Iron Tank for treating the Wheels of Wagons with Linseed Oil.
If properly used, it will not only preserve your Wheels indefinitely, but will save its cost in tire-setting the first season.

No. 1, for wide tire wheels, 34 inches long, 5 inches wide, 6 inches deep..... Each, \$2.50

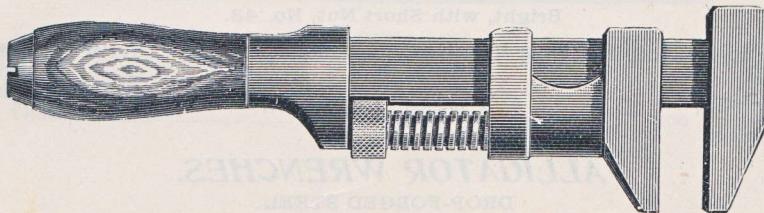
WRENCHES.

COE'S GENUINE, BLACK, KNIFE HANDLE.



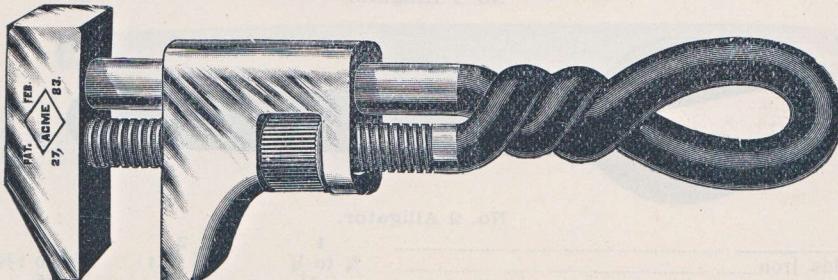
Inches.....	6	8	10	12	15	18	21
Per Dozen.....	\$ 9.00	10.00	12.00	14.00	24.00	30.00	36.00

AGRICULTURAL, WROUGHT BAR, BLACK.

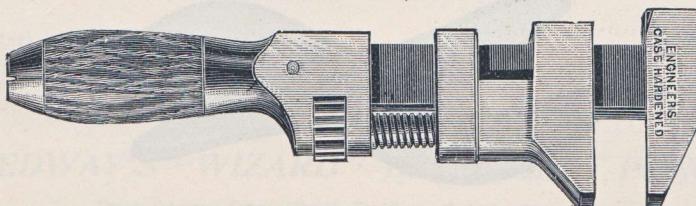


Inches.....	6	8	10	12	15
Per Dozen.....	\$ 9.00	10.00	12.00	14.00	24.00

ACME, ALL STEEL, BRIGHT.



Inches.....	5	6	8	10	12	15	18	21
Per Dozen....	\$ 8.00	9.00	10.00	12.00	14.00	24.00	30.00	36.00

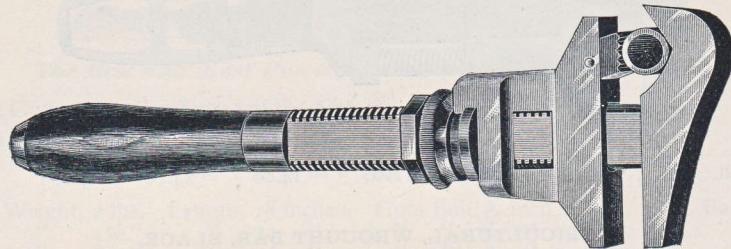
ENGINEER'S, WROUGHT BAR, EXTRA HEAVY,
CASE HARDENED, BLACK

Inches.....	6	8	10	12	15	18	21
Per Dozen....	\$ 9.00	10.00	12.00	14.00	24.00	30.00	36.00

WRENCHES.

BEMIS & CALL COMBINATION WRENCHES.

With Wrought Iron Bar, Case Hardened Throughout.
Parts Interchangeable.



Bright, with Short Nut, No. 43.

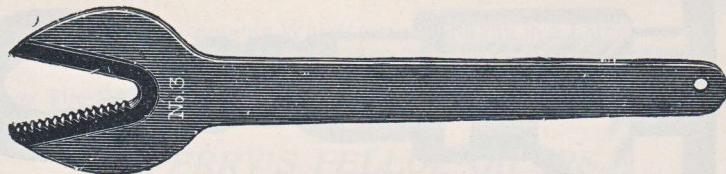
10 inch, adjustable to Pipe from $\frac{1}{4}$ inch to 1 inch in diameter	Per dozen, \$23.00
12 " " " $\frac{1}{2}$ " $1\frac{3}{4}$ " " "	" 26.00
15 " " " $\frac{1}{2}$ " $2\frac{1}{4}$ " " "	" 37.00
18 " " " $\frac{1}{2}$ " 3 " " "	" 60.00

ALLIGATOR WRENCHES.

DROP-FORGED STEEL.



No. 1 Alligator.

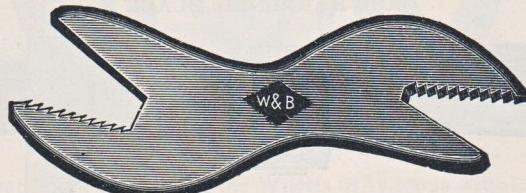


No. 2 Alligator.

No.....	1 $\frac{1}{4}$ to $\frac{3}{4}$	2 $\frac{1}{2}$ to 1	3 $\frac{3}{4}$ to $1\frac{3}{8}$
Holds Iron.....	$5\frac{3}{4}$	10	16
Length.....	\$4.00	12.00	24.00
Per Dozen.....			

ALWAYS READY WRENCHES.

Nickle Plated.



No.....	1 $\frac{1}{4}$ to $\frac{3}{4}$	2 $\frac{1}{4}$ to $1\frac{1}{4}$	2 $\frac{1}{2}$ $\frac{1}{4}$ to $1\frac{1}{4}$
Holds Iron.....	3	6	8
Length.....	\$5.00	6.75	10.50
Per Dozen.....			

COLD CHISELS, PUNCHES, ETC.

BEST CAST STEEL COLD CHISELS.



OCTAGON.

Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Weight, per dozen	Lbs. $2\frac{1}{4}$	$3\frac{1}{2}$	7	10	14	18
Per Dozen	\$.90	1.20	2.00	3.00	5.00	7.00

OCTAGON MACHINE PUNCHES.

5½ INCH. BEST CAST STEEL.



No.....	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$
Diameter at Point	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$
Per Dozen	\$1.50	1.50	1.50	1.50

DRIVE BELT PUNCHES.



Cast Steel, sizes 1, 2, 3, 4 and 5	Per dozen, \$1.30
“ “ “ 6, 7, 8, 9 and 10	“ “ 1.70

TREDWAY'S "WIZARD" DRIVE BELT PUNCHES.

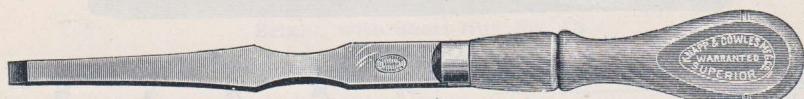
Best Round Cast Steel, Drilled, Polished and Blued.

"Wizard," sizes 1, 2, 3, 4 and 5	Per dozen, \$2.00
“ “ “ 6, 7, 8, 9 and 10	“ “ 2.50

SCREW DRIVERS.

No. 1 SOLID CAST STEEL.

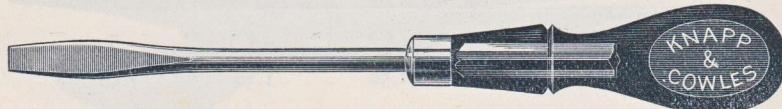
CAP FERRULE.



Inches, Blade	1 1/2	2	3	4	5	6	8	10
Per Dozen.....	\$1.00	1.60	2.15	2.65	3.20	3.75	5.50	8.00

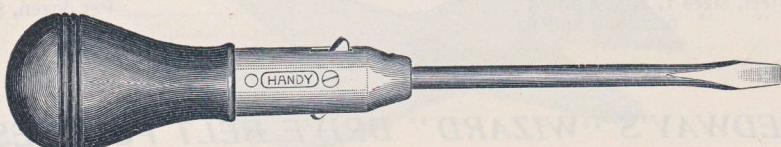
No. 3 ROUND SHANK.

BLACK ENAMELED HANDLE.

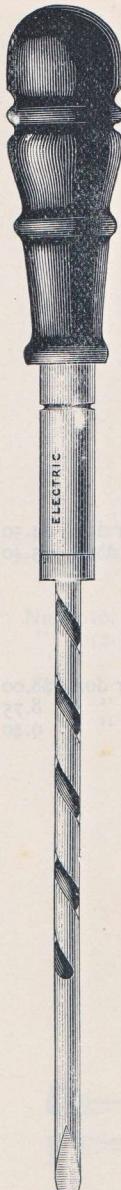


Inches, Blade	4	5	6	8
Per Dozen	\$3.50	4.00	5.00	7.00

HANDY RATCHET SCREW DRIVER.



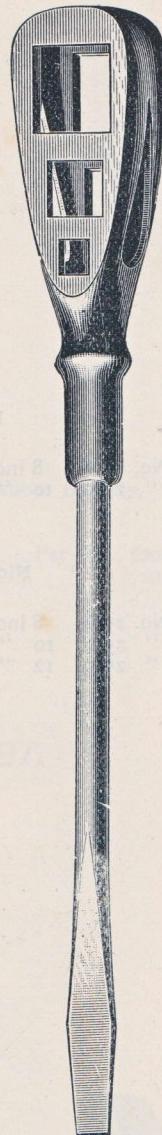
No.....	1	4	5	6
Inches, Blade	(pocket size)	4	5	6
Per dozen.....	\$6.00	7.00	8.00	9.00



SCREW DRIVERS.

HAWKEYE.

6 inch, Steel Shank, Malleable Head.....Per doz., \$3.00



ELECTRIC SPIRAL.

No. 01. 12 inch, extends to 18 inches.....Per doz., \$18.00

Jones' Reversible Spiral Clutch Triple Bit Screw Driver.

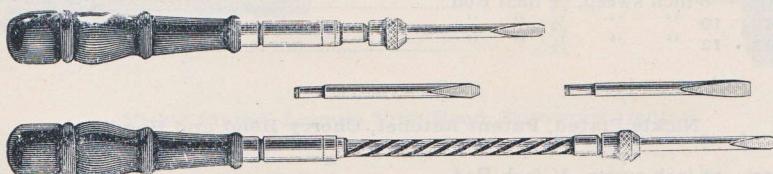
Jones', with three Bits, large size.....Per doz., \$36.00

Howard-Allard Spiral Clutch Triple Bit Screw Driver.

No. A 1, with three Bits, large size.....Per doz., \$24.00

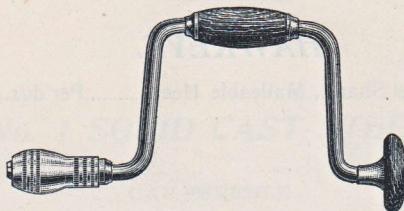
Electric Spiral.

Hawkeye.



Howard-Allard Spiral Clutch Triple Bit Screw Driver.

BIT BRACES.



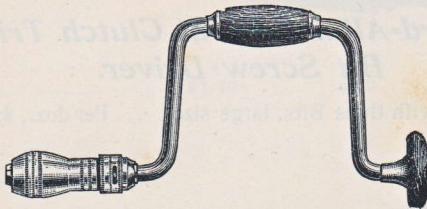
Polished, Adjustable Jaw, Cherry Head and Handle.

No. 2708.	8 inch sweep, $\frac{7}{16}$ inch Rod	Per doz., \$4.50
" 2710.	10 " " $\frac{1}{2}$ " "	5.40

Nickle Plated, Adjustable Jaw, Cherry Head and Handle.

No. 2508.	8 inch sweep, $\frac{7}{16}$ inch Rod	Per doz., \$8.00
" 2510.	10 " " $\frac{1}{2}$ " "	8.75
" 2512.	12 " " $\frac{1}{2}$ " "	9.40

RATCHET BRACES.



Polished, Patent Ratchet, Cherry Head and Handle.

No. 2608.	8 inch sweep, $\frac{7}{16}$ inch Rod	Per doz., \$ 9.75
" 2610.	10 " " $\frac{1}{2}$ " "	10.50
" 2612.	12 " " $\frac{1}{2}$ " "	11.25

Nickle Plated, Patent Ratchet, Cherry Head and Handle.

No. 2410.	10 inch sweep, $\frac{1}{2}$ inch Rod	Per doz., \$12.00
" 2412.	12 " " $\frac{1}{2}$ " "	13.50

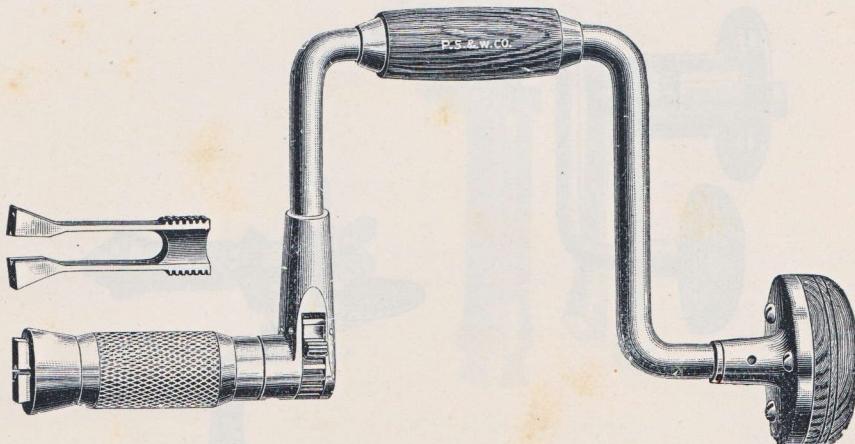
BIT BRACES.



Nickle Plated, Patent Ratchet, Lignum Vitæ Head and Cocoabola Handle.

No. 1010. 10 inch sweep, $\frac{1}{2}$ inch Rod.....	Per doz., \$20.25
" 1012. 12 " " $\frac{1}{2}$ " "	" 22.50

PECK'S PATENT, WITH RATCHET.

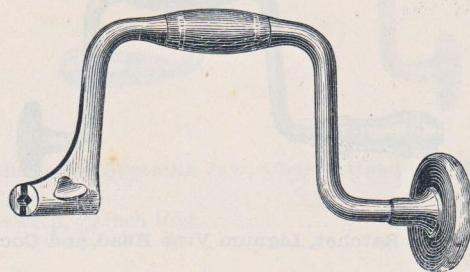


Nickle Plated, Lignum Vitæ Head, Rosewood Center:

No. 102. 10 inch sweep, $\frac{1}{2}$ inch Rod.....	Per doz., \$42.75
" 101. 12 " " $\frac{1}{2}$ " "	" 46.00

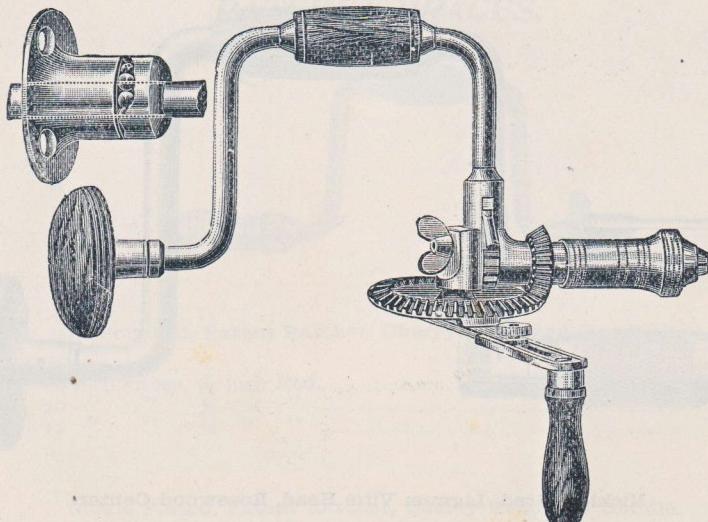
BIT BRACES.

SPOFFORD'S IMPROVED.



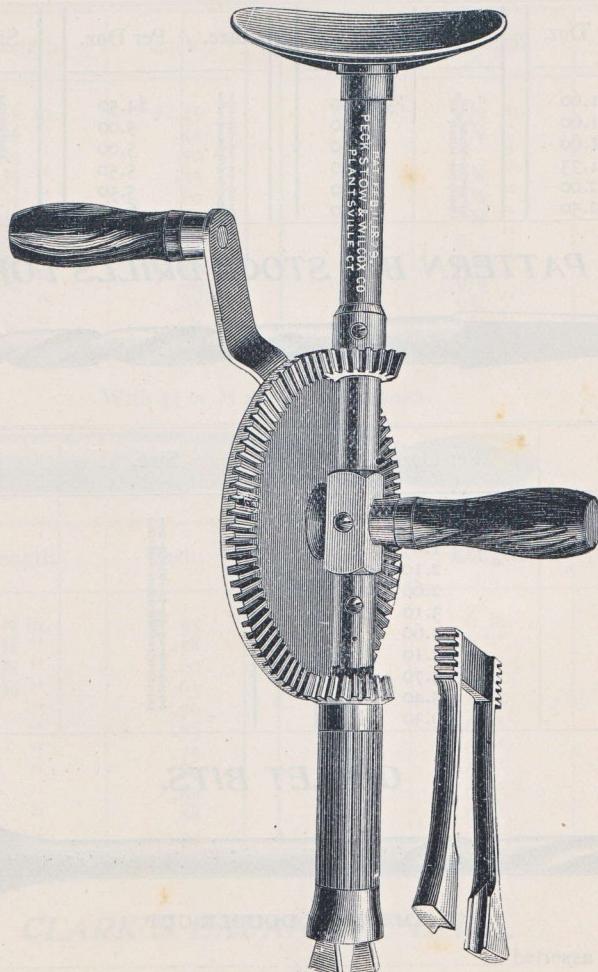
No. 110. 10 inch sweep, Rosewood Head and Handle.....	Per doz., \$27.00
" 112. 12 " " " " "	" 30.00

MILLER FALLS RATCHET BRILL BRACES.



10 inch sweep, Nickel Plated.....	Per doz., \$36.00
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BREAST DRILLS.



PECK'S ENAMELED, EXTRA FINISHED.

No. 5. Rosewood Handles, Adjustable Jaws..... Each, \$3.75

DRILL BITS.

SYRACUSE BIT STOCK DRILLS FOR WOOD.



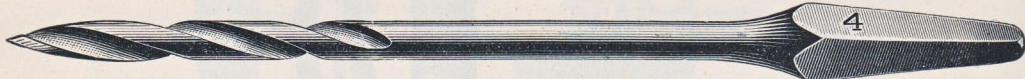
Size.	Per Doz.	Size.	Per Doz.	Size.	Per Doz.	Size.	Per Doz.
$\frac{2}{3}^{\frac{1}{2}}$	\$1.60	$\frac{8}{3}^{\frac{1}{2}}$	\$3.00	$\frac{14}{3}^{\frac{1}{2}}$	\$4.50	$\frac{20}{3}^{\frac{1}{2}}$	\$6.00
$\frac{3}{3}^{\frac{1}{2}}$	1.60	$\frac{9}{3}^{\frac{1}{2}}$	3.50	$\frac{15}{3}^{\frac{1}{2}}$	5.00	$\frac{22}{3}^{\frac{1}{2}}$	6.50
$\frac{4}{3}^{\frac{1}{2}}$	1.60	$\frac{10}{3}^{\frac{1}{2}}$	3.50	$\frac{16}{3}^{\frac{1}{2}}$	5.00	$\frac{24}{3}^{\frac{1}{2}}$	7.00
$\frac{5}{3}^{\frac{1}{2}}$	1.75	$\frac{11}{3}^{\frac{1}{2}}$	4.00	$\frac{17}{3}^{\frac{1}{2}}$	5.50		
$\frac{6}{3}^{\frac{1}{2}}$	2.00	$\frac{12}{3}^{\frac{1}{2}}$	4.00	$\frac{18}{3}^{\frac{1}{2}}$	5.50		
$\frac{7}{3}^{\frac{1}{2}}$	2.50	$\frac{13}{3}^{\frac{1}{2}}$	4.50	$\frac{19}{3}^{\frac{1}{2}}$	6.00		

MORSE PATTERN BIT STOCK DRILLS FOR METAL.



Size.	Per Dozen.	Size.	Per Dozen.
$\frac{2}{3}^{\frac{1}{2}}$	\$1.50	$\frac{12}{3}^{\frac{1}{2}}$	\$ 7.20
$\frac{3}{3}^{\frac{1}{2}}$	1.65	$\frac{13}{3}^{\frac{1}{2}}$	8.00
$\frac{4}{3}^{\frac{1}{2}}$	2.10	$\frac{14}{3}^{\frac{1}{2}}$	8.80
$\frac{5}{3}^{\frac{1}{2}}$	2.60	$\frac{15}{3}^{\frac{1}{2}}$	9.60
$\frac{6}{3}^{\frac{1}{2}}$	3.10	$\frac{16}{3}^{\frac{1}{2}}$	10.30
$\frac{7}{3}^{\frac{1}{2}}$	3.60	$\frac{17}{3}^{\frac{1}{2}}$	11.00
$\frac{8}{3}^{\frac{1}{2}}$	4.10	$\frac{18}{3}^{\frac{1}{2}}$	11.80
$\frac{9}{3}^{\frac{1}{2}}$	4.70	$\frac{19}{3}^{\frac{1}{2}}$	12.60
$\frac{10}{3}^{\frac{1}{2}}$	5.40	$\frac{20}{3}^{\frac{1}{2}}$	13.40
$\frac{11}{3}^{\frac{1}{2}}$	6.30		

GIMLET BITS.



AMERICAN DOUBLE CUT.

No. 1 to 6, or assorted Per dozen, \$1.20

GERMAN GIMLET BITS.



Inches.....	$\frac{2}{3}^{\frac{1}{2}}$ to $\frac{8}{3}^{\frac{1}{2}}$	$\frac{9}{3}^{\frac{1}{2}}$	$\frac{10}{3}^{\frac{1}{2}}$	$\frac{11}{3}^{\frac{1}{2}}$	$\frac{12}{3}^{\frac{1}{2}}$
Per Dozen.....	\$1.40	1.60	1.80	1.90	2.00

BLACKSMITHS' TWIST DRILLS.

With $\frac{1}{2} \times 2\frac{1}{2}$ inch Shanks.



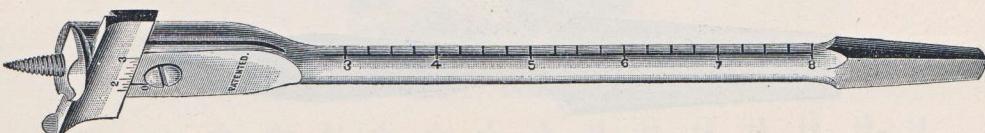
Size.	Length.	Each.	Size.	Length.	Each.
$\frac{1}{8}$	$5\frac{1}{8}$ in.	\$.45	$\frac{1}{2}$	$7\frac{1}{2}$ in.	\$.95
$\frac{5}{32}$	"	.45	$\frac{1}{2}$	$7\frac{3}{4}$ "	1.00
$\frac{3}{16}$	$5\frac{5}{8}$ "	.50	$\frac{1}{2}$	8 "	1.10
$\frac{7}{32}$	$5\frac{7}{8}$ "	.55	$\frac{9}{16}$	$8\frac{1}{4}$ "	1.20
$\frac{1}{4}$	$6\frac{1}{8}$ "	.60	$\frac{1}{2}$	$8\frac{1}{2}$ "	1.30
$\frac{9}{32}$	$6\frac{1}{4}$ "	.65	$\frac{5}{8}$	$8\frac{3}{4}$ "	1.40
$\frac{5}{16}$	$6\frac{3}{8}$ "	.70	$\frac{1}{2}$	9 "	1.50
$\frac{11}{32}$	$6\frac{1}{2}$ "	.75	$\frac{1}{2}$	$9\frac{1}{4}$ "	1.60
$\frac{3}{8}$	$6\frac{3}{4}$ "	.80	$\frac{1}{2}$	$9\frac{1}{2}$ "	1.70
$\frac{13}{32}$	7 "	.85	$\frac{3}{4}$	$9\frac{3}{4}$ "	1.85
$\frac{7}{16}$	$7\frac{1}{4}$ "	.90	$\frac{2}{3}$	$9\frac{7}{8}$ "	2.00

With $\frac{41}{64}$ or $\frac{5}{8} \times 2\frac{1}{4}$ inch Shanks.



Size.	Length.	Each.	Size.	Length.	Each.
$\frac{1}{8}$	$4\frac{7}{8}$ in.	\$.55	$\frac{1}{2}$	6 in.	\$.93
$\frac{5}{32}$	$4\frac{7}{8}$ "	.58	$\frac{1}{2}$	6 "	.95
$\frac{3}{16}$	$5\frac{5}{8}$ "	.60	$\frac{1}{2}$	6 "	.98
$\frac{7}{32}$	$5\frac{7}{8}$ "	.65	$\frac{9}{16}$	6 "	1.00
$\frac{1}{4}$	6 "	.70	$\frac{1}{2}$	6 "	1.03
$\frac{9}{32}$	6 "	.73	$\frac{5}{8}$	6 "	1.05
$\frac{5}{16}$	6 "	.75	$\frac{1}{2}$	6 "	1.10
$\frac{11}{32}$	6 "	.80	$\frac{1}{2}$	6 "	1.15
$\frac{3}{8}$	6 "	.85	$\frac{1}{2}$	6 "	1.20
$\frac{13}{32}$	6 "	.88	$\frac{3}{4}$	6 "	1.25
$\frac{7}{16}$	6 "	.90			

CLARK'S EXPANSIVE BITS.

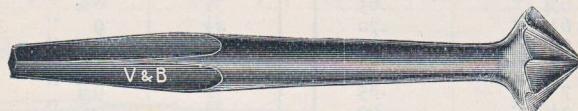


No. 1, small size, cuts from $\frac{1}{2}$ to $1\frac{1}{2}$ inches Per dozen, \$18.00
 No. 2, large " " " $\frac{7}{8}$ to 3 " " 26.00

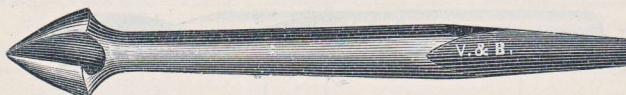
COUNTERSINKS, REAMERS, ETC.



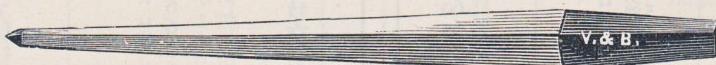
No. 12, Flat Countersink, Best Cast Steel, for Iron Per dozen, \$1.50



No. 13, Rose Head, Best Cast Steel, for Brass Per dozen, \$1.50

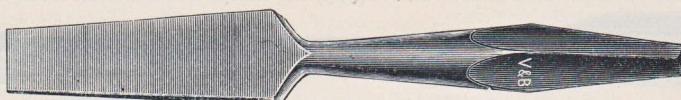


No. 14, Snail Head, Best Cast Steel, for Wood Per dozen, \$1.50



NO. 15 SQUARE REAMER.

No. 15, Extra Tool Steel, Square, Polished	Per dozen, \$1.50
No. 16, " " " Half Round, "	" 1.50
No. 17, " " " Octagon, "	" 1.50
No. 18, " " " Taper, "	" 1.50

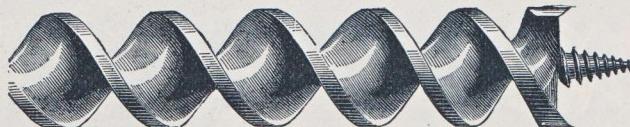


NO. 10 SCREW DRIVER BITS.

No. 10, Extra Cast Steel, Full Polished	Per dozen, \$1.50
No. 11, " " " Slotted, Full Polished	" 1.50

CAST STEEL AUGER BITS.

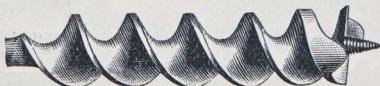
Ives' Superior Quality Cast Steel Auger Bits.



Sizes,	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{8}{8}$	$\frac{9}{8}$	$\frac{10}{8}$	$\frac{11}{8}$	$\frac{12}{8}$	$\frac{13}{8}$	$\frac{14}{8}$	$\frac{15}{8}$	$\frac{16}{8}$
Per doz.,.....	\$3.50	3.00	3.00	3.25	3.25	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.25	8.00
														10.00

Sets, 24 Quarters.....	Per set, \$4.00
" $32\frac{1}{2}$ "	" 5.50

Tredway's "Wizard." -- Jennings' Pattern Auger Bits.



POLISHED SHANKS.

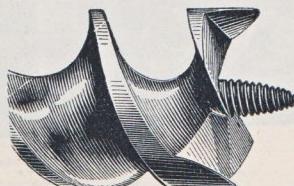
EVERY BIT WARRANTED.

Packed One-Half Dozen in Slide-Lid Wooden Boxes.

Sizes,	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{8}{8}$	$\frac{9}{8}$	$\frac{10}{8}$	$\frac{11}{8}$	$\frac{12}{8}$	$\frac{13}{8}$	$\frac{14}{8}$	$\frac{15}{8}$	$\frac{16}{8}$
Per doz.,.....	\$3.50	3.00	3.40	3.80	4.40	4.80	5.20	5.60	6.10	6.60	7.20	7.80	8.40	9.00

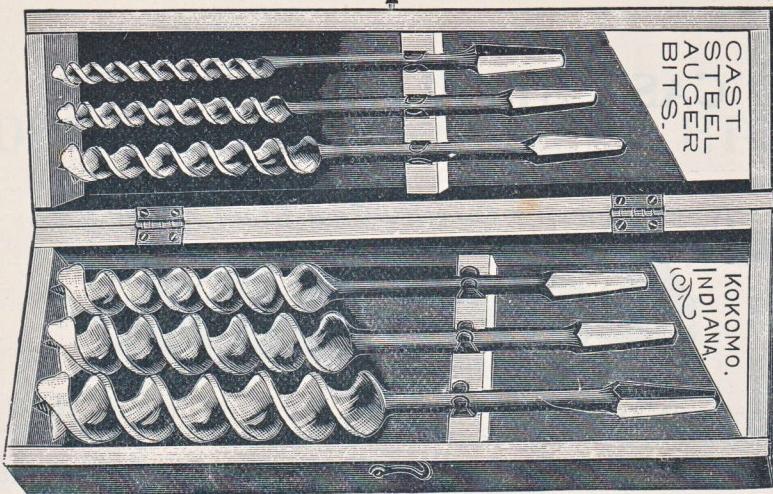
Sets, 24 Quarters.....	Per set, \$5.50
" $32\frac{1}{2}$ "	" 6.25

GENUINE JENNINGS AUGER BITS.

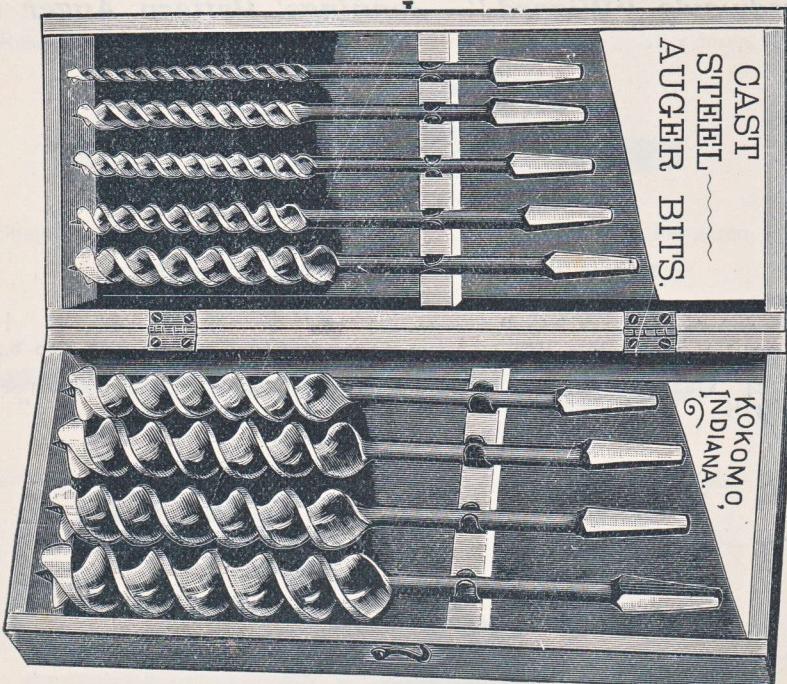


Sizes,	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{8}{8}$	$\frac{9}{8}$	$\frac{10}{8}$	$\frac{11}{8}$	$\frac{12}{8}$	$\frac{13}{8}$	$\frac{14}{8}$	$\frac{15}{8}$	$\frac{16}{8}$
Per doz.,.....	\$3.50	3.00	3.40	3.80	4.40	4.80	5.20	5.60	6.10	6.60	7.20	7.80	8.40	9.00

Sets, $32\frac{1}{2}$ Quarters.....	Per set, \$6.25
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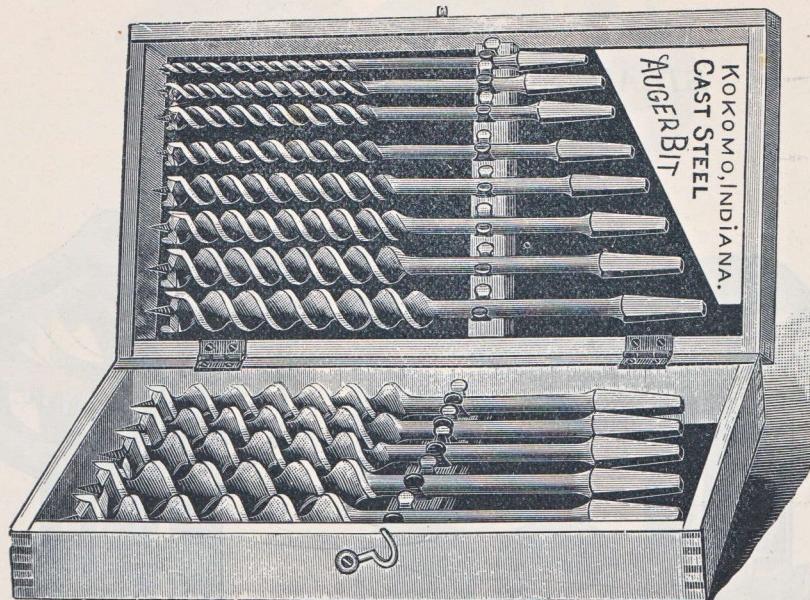
Sets of Auger Bits--In Varnished Hardwood Boxes.*Six Bits to a Set.*

Set No. H.	One Bit each	$\frac{4}{16}$, $\frac{5}{16}$, $\frac{6}{16}$, $\frac{8}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, Ives' Old Style	Per set, \$1.80
" H W.	" "	$\frac{4}{16}$, $\frac{5}{16}$, $\frac{6}{16}$, $\frac{8}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, Wizard Auger Bits	" 3.10
" H J.	" "	$\frac{4}{16}$, $\frac{5}{16}$, $\frac{6}{16}$, $\frac{8}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, Genuine Jennings Bits	" 2.50

*Nine Bits to a Set.*

Set No. T.	One Bit each	$\frac{4}{16}$, $\frac{5}{16}$, $\frac{6}{16}$, $\frac{8}{16}$, $\frac{9}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, $\frac{14}{16}$, $\frac{16}{16}$, Ives' Old Style	Per set, \$2.70
" T W.	" "	$\frac{4}{16}$, $\frac{5}{16}$, $\frac{6}{16}$, $\frac{8}{16}$, $\frac{9}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, $\frac{14}{16}$, $\frac{16}{16}$, Wizard Auger Bits	" 4.95
" T J.	" "	$\frac{4}{16}$, $\frac{5}{16}$, $\frac{6}{16}$, $\frac{8}{16}$, $\frac{9}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, $\frac{14}{16}$, $\frac{16}{16}$, Genuine Jennings Bits	" 4.40

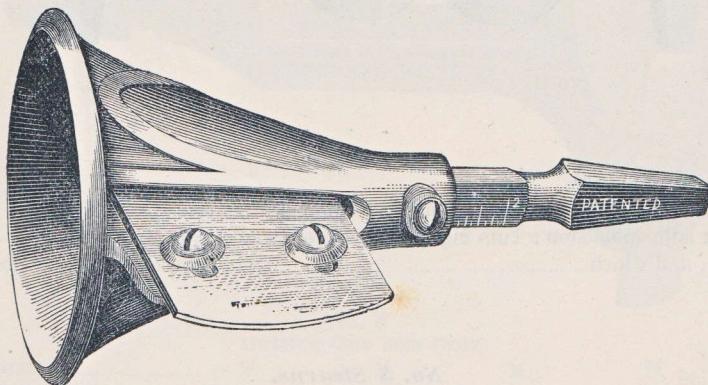
AUGER BITS IN SETS.



Thirteen Bits to a Set.

Set No. 32½.	One Bit each	$\frac{4}{6}$, $\frac{5}{6}$, $\frac{6}{6}$, $\frac{7}{6}$, $\frac{8}{6}$, $\frac{9}{6}$, $\frac{10}{6}$, $\frac{11}{6}$, $\frac{12}{6}$, $\frac{13}{6}$, $\frac{14}{6}$, $\frac{15}{6}$, $\frac{16}{6}$,	Per set, \$3.70
" 32½ W.	" "	$\frac{4}{6}$, $\frac{5}{6}$, $\frac{6}{6}$, $\frac{7}{6}$, $\frac{8}{6}$, $\frac{9}{6}$, $\frac{10}{6}$, $\frac{11}{6}$, $\frac{12}{6}$, $\frac{13}{6}$, $\frac{14}{6}$, $\frac{15}{6}$, $\frac{16}{6}$,	" 6.75
" 32½ J.	" "	$\frac{4}{6}$, $\frac{5}{6}$, $\frac{6}{6}$, $\frac{7}{6}$, $\frac{8}{6}$, $\frac{9}{6}$, $\frac{10}{6}$, $\frac{11}{6}$, $\frac{12}{6}$, $\frac{13}{6}$, $\frac{14}{6}$, $\frac{15}{6}$, $\frac{16}{6}$, Genuine Jennings Bits	" 6.75

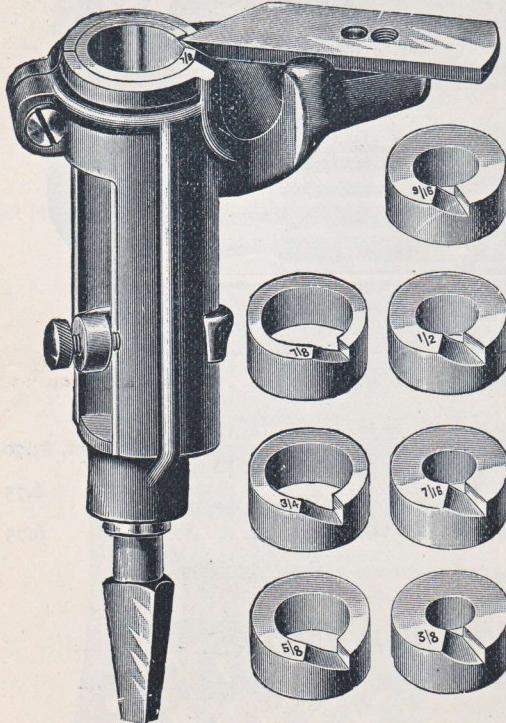
STEARNS' SPOKE POINTERS.



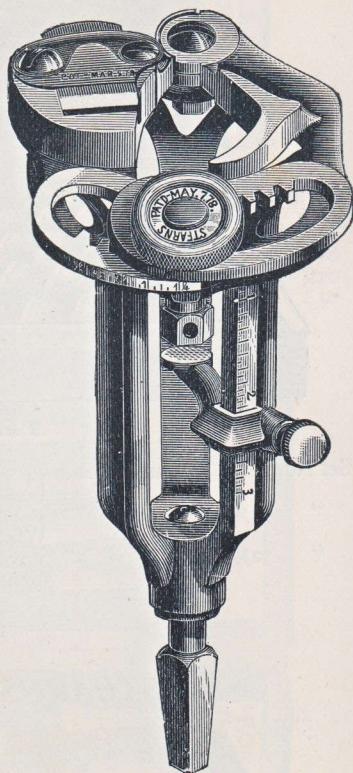
With Graduated Adjustable Shank.

No. 1. Points up to $1\frac{1}{8}$ inches diameter Per doz., \$9.00

**STEARNS' PATENT ADJUSTABLE
HOLLOW AUGERS.**



No. 1.



No. 3.

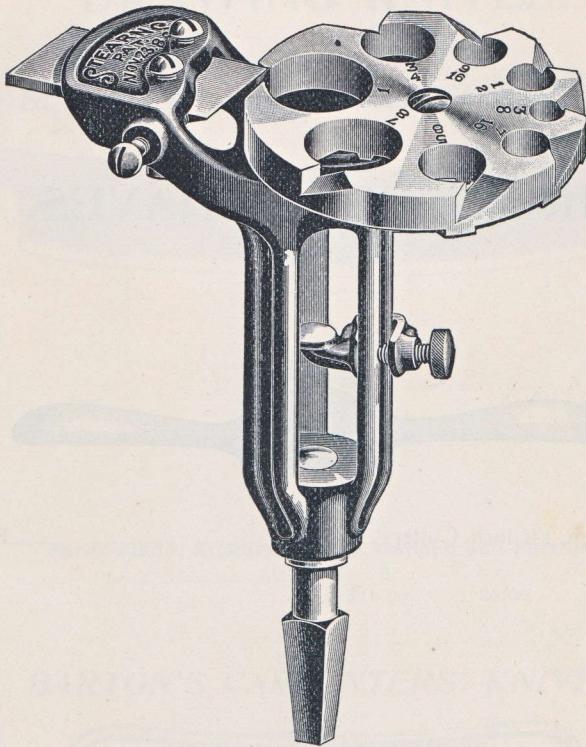
No. 1 Stearns.

Made of malleable iron and nicely finished; knife of best tool steel; has patent adjustable stop; cuts eight sizes, as follows, $\frac{5}{16}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{11}{16}$, and 1 inch..... Per doz., \$48.00

No. 3 Stearns.

Cuts any size tenon from $\frac{1}{4}$ to $1\frac{1}{4}$ inches; the pivoted jaws are provided with a graduated scale by which the size of the tenon is regulated..... Per doz., \$60.00

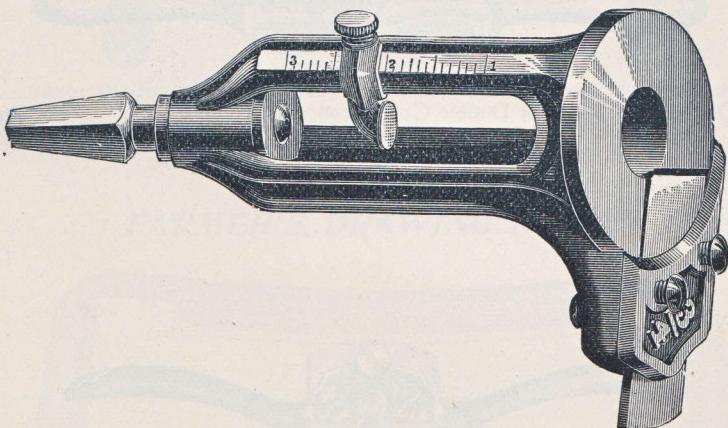
**IMPROVED BONNEY'S ADJUSTABLE
HOLLOW AUGERS.**



No. 4.

No. 4 Bonney's. Cuts tenons from $\frac{3}{8}$ to 1 inch..... Per doz., \$48.00

STEARNS' HOLLOW AUGER.



No. 6.

Cutting One Size Only.

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	I
With Bits, Per doz.....	\$12.00	14.00	14.00	16.00	16.00
Without " "	8.00	9.00	9.00	13.00	13.00

No. 6 is sent without bits unless otherwise ordered.

IRON SPOKE SHAVES.



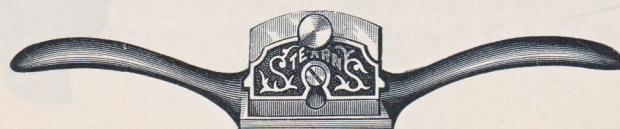
No. 1.

No. 1. Single Iron, $1\frac{3}{4}$ inch Cutter Per doz., \$1.75



No. 3.

No. 3. Double Iron, $1\frac{3}{4}$ inch Double Cutter, concave and straight Per doz., \$3.00



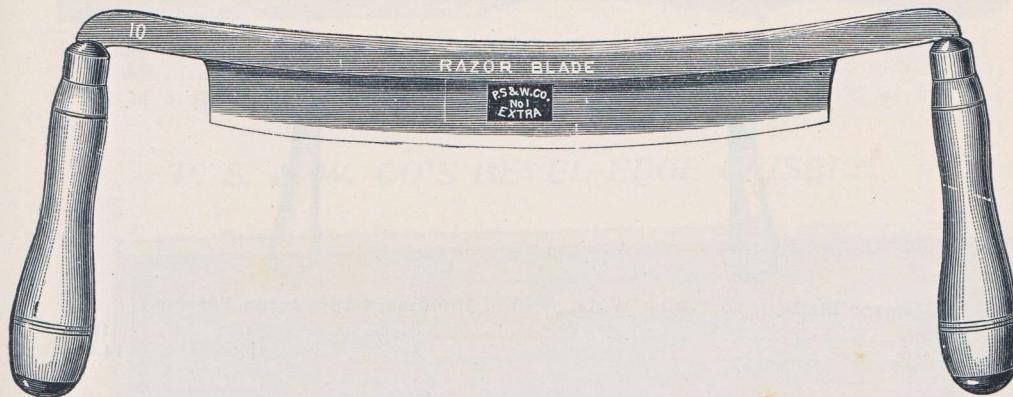
No. 6.

No. 6. Stearns, $2\frac{1}{8}$ inch Cutter, adjustable cap, raised handles Per doz., \$3.50

Packed one dozen in a box.

DRAWING KNIVES.

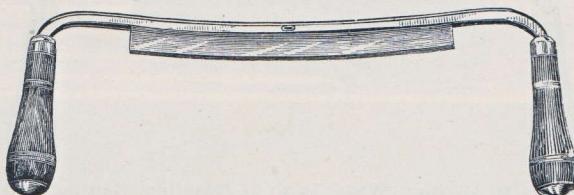
P. S. & W. CO'S CARPENTERS' KNIVES.



Razor Blade, Hickory Handle, Capped and Ferruled.

Inches	8	9	10	11
Per doz.,	\$19.00	20.00	21.00	22.00

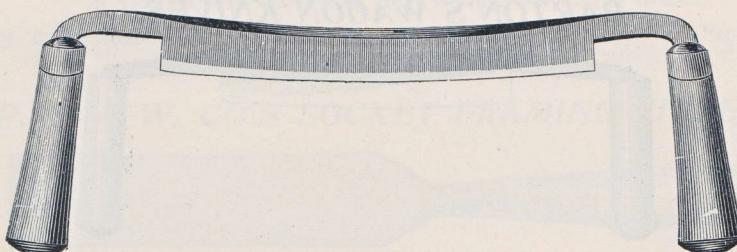
BARTON'S CARPENTERS' KNIVES.



Razor Blade, Walnut Handle, 1½ Inch Wide, Capped and Ferruled.

Inches	8	9	10
Per doz.,	\$12.00	13.00	14.00

FARMER'S DRAWING KNIVES.



Inches	7	8	9	10	11
Per doz.,	\$13.00	14.00	15.00	16.00	17.00

DRAWING KNIVES.

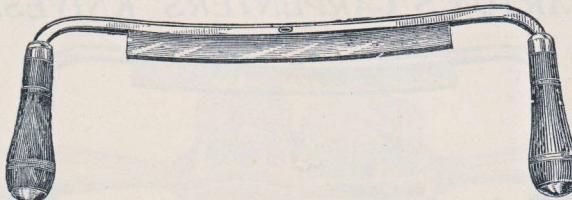
BARTON'S CARRIAGE KNIVES.



Razor Blade, $\frac{3}{4}$ to 1 Inch Wide, Walnut Handles, Capped and Ferruled.

	8	9	10
Inches			
Per doz.,	\$12.00	13.00	14.00

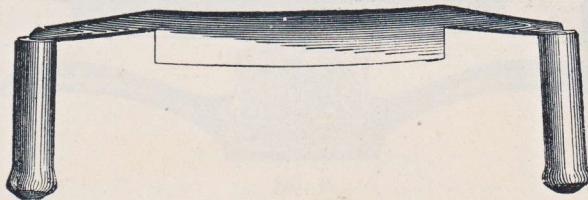
BARTON'S COACH KNIVES.



Razor Blade, $1\frac{1}{4}$ to $1\frac{1}{2}$ Inch Wide, Walnut Handles, Capped and Ferruled.

	8	9	10
Inches			
Per doz.,	\$13.00	14.00	15.00

BARTON'S WAGON KNIVES.



Heavy Blade, $1\frac{1}{4}$ and $1\frac{1}{2}$ Inch Wide, Black Walnut Handles, Capped.

	8	9	10
Inches			
Per doz.,	\$13.00	14.00	15.00

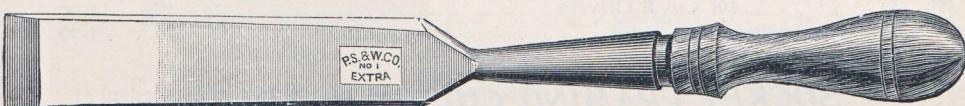
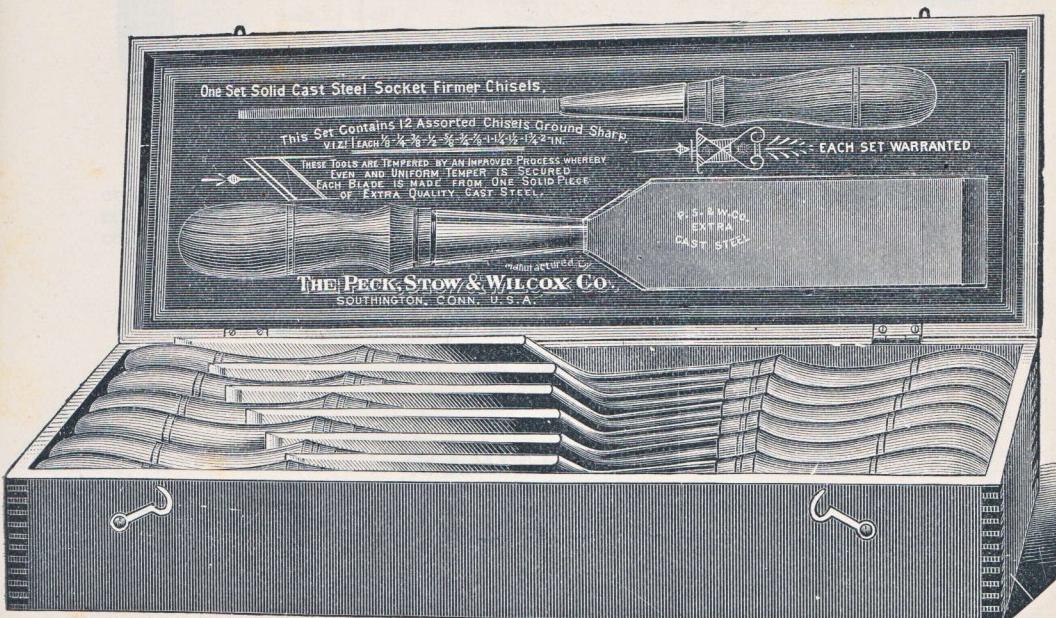
CHISELS.

P. S. & W. CO'S SOCKET FIRMER CHISELS.



Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
Per doz.,	\$8.00	8.00	8.00	9.00	10.00	11.00	11.00	12.00	13.00	14.00	15.00	16.00
Sets of 8, assorted ($\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2)	Per set, \$ 8.25											
" 12, " ($\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2)	" 11.25											

P. S. & W. CO'S BEVEL EDGE CHISELS.



In Sets only, in Varnished Hardwood Dove-Tailed Boxes.

Sets of 8, assorted ($\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2)	Per set, \$ 10.00
" 12, " ($\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2)	" 13.00

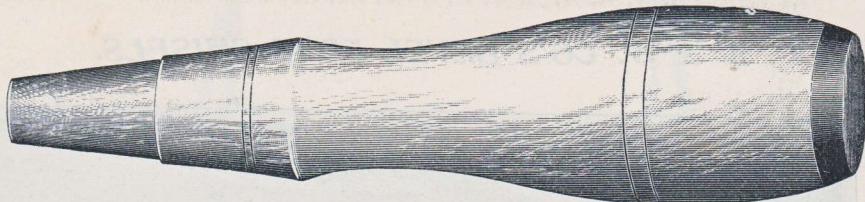
P. S. & W. CO'S SOCKET FRAMING CHISELS.



Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	
Per doz.,	\$12.00	12.00	12.00	13.00	14.00	15.00	16.00	18.00	20.00	22.00	24.00	

CHISEL HANDLES, ETC.

SOCKET FIRMER CHISEL HANDLES.



Fibre Head Socket Firmer.

No. 2.	Polished Hickory, with Vulcanized Fibre Head.....	Per doz., \$1.70
No. 53.	" " " assorted four larger sizes	" .60
No. 57.	" " " extra large	" .80

SHANK FIRMER CHISEL HANDLES.

No. 33.	Polished Hickory, assorted four larger sizes.....	Per doz., \$.60
No. 35.	" " " extra large80

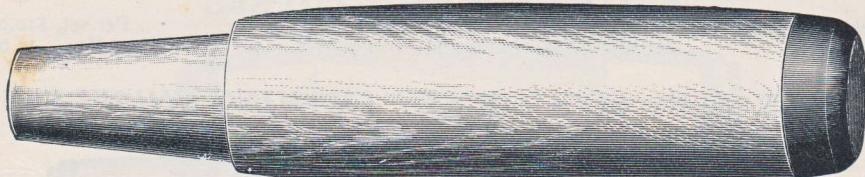
FILE HANDLES.

No. 23.	Basswood, assorted large sizes	Per doz., \$.40
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SCREW DRIVER HANDLES.

No. 11.	Beechwood, assorted sizes for 5, 6 and 8 inch	Per doz., \$1.20
No. 5.	" for 5 inch Drivers.....	" 1.00
No. 6.	" 6 " "	" 1.20

SOCKET FRAMING CHISEL HANDLES.



Fibre Head Socket Framing.

No. 3.	Polished Hickory, with Vulcanized Fibre Head.....	Per doz., \$2.00
No. 73.	" " " assorted four larger sizes	" .80
No. 75.	" " " extra large	" 1.00

HANDLES.

SLEDGE HANDLES.



30 inch Excelsior Sledge Handles, second growth	Per doz., \$1.60
36 " " " " " "	" 2.00
30 " No. 1 " " all white	" 1.25
36 " " " " " "	" 1.60
36 " Sperry Maul "	" 1.45

HAMMER HANDLES.



Riveting.

Blacksmith's.

Round Eye, Extra Quality, Second Growth, All White Hickory.

12 inch Riveting	Per doz., \$.60
13 " "	" .60
14 " "	" .60
15 " "	" .60
16 " Blacksmith's'	" .65
18 " "	" .80
20 " "	" .90
22 " "	" .95
24 " "	" 1.05
28 " "	" 1.25

NAIL HAMMER HANDLES.



Adze Eye.

Round Eye.

13 inch, Adze Eye or Round Eye, extra quality	Per doz., \$.60
14 " " " " " "	" .60

HATCHET HANDLES.



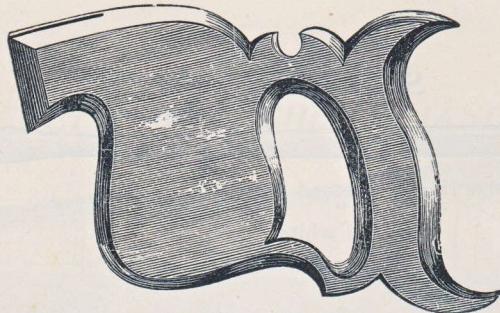
Shingling.

Bench.

13 inch, extra quality, for No. 1 Hatchet	Per doz., \$.60
14 " " " " 2 "	" .60
15 " " " " 3 "	" .60
16 " " " " 3 and 4 Bench Hatchet	" .65
18 " " " " 5 and 6 "	" .85

HANDLES, ETC.

SAW HANDLES.



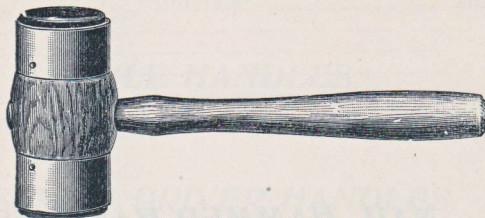
No. 2.

No. 2.	Hand Saw Handles, Beech, varnished edges.....	Per doz., \$1.75
" 3.	" " " plain	" 1.50
" D 8.	" " Applewood, varnished.....	" 6.50
" 4.	Panel " " Beech, varnished edges	" 1.75

PLANE HANDLES.

Jack Plane Handles, Beech, plain finish.....	Per doz., \$.60
Fore or Jointer Plane Handles, Beech, plain finish.....	" .90

MALLETS.



Vulcanized Fibre Head.

No. 2½.	Vulcanized Fibre Head, 2½ inches, malleable iron band.....	Per doz., \$7.50
" 3.	" " " 3.....	9.00

Hickory Mallets.

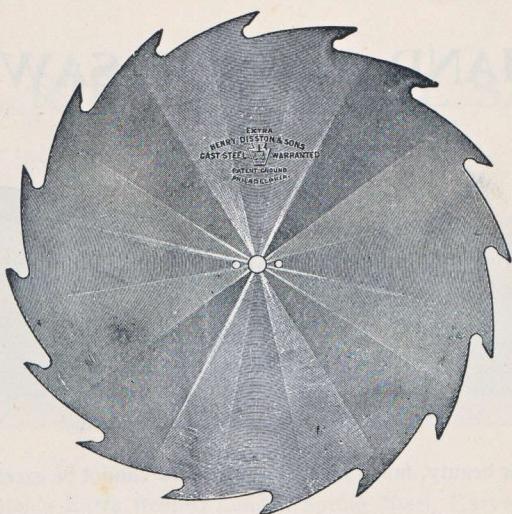
No. 1.	Round Hickory, Mortised, 5x3 inches	Per doz., \$1.50
" 2.	" " " 5½x3½ inches.....	" 2.00
" 3.	" " " 6x4 inches	" 2.50
" 8.	Square " " " 6x2½x3½ inches.....	" 2.00
" 9.	" " " 6½x2¾x3¾ inches.....	" 2.50
" 10.	" " " 7x3x4 inches	" 3.00

Lignum Vitæ Mallets.

No. 5.	Round Lignum Vitæ, Mortised, 5x3 inches.....	Per doz., \$3.00
" 6.	" " " 5½x3½ inches.....	" 4.00
" 7.	" " " 6x4 inches	" 5.00
" 11.	Square " " " 6x2½x3½ inches.....	" 3.75
" 12.	" " " 6½x2¾x3¾ inches.....	" 4.75
" 13.	" " " 7x3x4 inches	" 5.75

Iron Socket Mallets.

No. 15.	Round, Iron Center, Hickory ends, 4½x2½ inches.....	Per doz., \$4.00
" 16.	" Malleable Iron Socket, 5¾x3 inches.....	" 7.50

HENRY DISSTON & SONS' CIRCULAR SAWS.

**Ground and Tempered.
Circular, Cross Cut or Rip Saws.**

Diameter, Inches.	Thickness, Gauge.	Size of Hole, Inches.	Each.	Extra for each Additional Gauge.
4	19	3/4	\$ 1.00	.03
5	19	3/4	1.20	.04
6	18	3/4	1.40	.05
7	18	3/4	1.70	.06
8	18	7/8	2.00	.08
9	17	7/8	2.50	.10
10	16	1	3.00	.12
11	16	1	3.50	.14
12	15	1	3.75	.17
14	15	1 1/8	4.50	.21
16	14	1 1/8	5.50	.25
18	13	1 1/4	7.00	.30
20	13	1 5/8	8.50	.35
22	12	1 5/8	10.00	.45
24	11	1 3/8	12.00	.55
26	11	1 3/8	14.00	.65
28	10	1 1/2	16.00	.80
30	10	1 1/2	18.00	.90
32	10	1 5/8	20.00	1.00
34	9	1 5/8	22.50	1.20
36	9	1 5/8	25.50	1.40
38	9	1 5/8	30.00	1.75
40	9	2	35.00	2.00
42	8	2	42.00	2.50
44	8	2	50.00	3.00
46	8	2	60.00	3.50
48	7	2	70.00	4.00
50	7	2	80.00	4.50
52	7	2	90.00	5.00
54	7	2	100.00	6.00
56	7	2	115.00	7.00
58	7	2	130.00	8.00
60	6	2	145.00	9.00

No extra charge for Saws one gauge thicker than list.
Prices on Mandrels for Circular Saws given upon application.

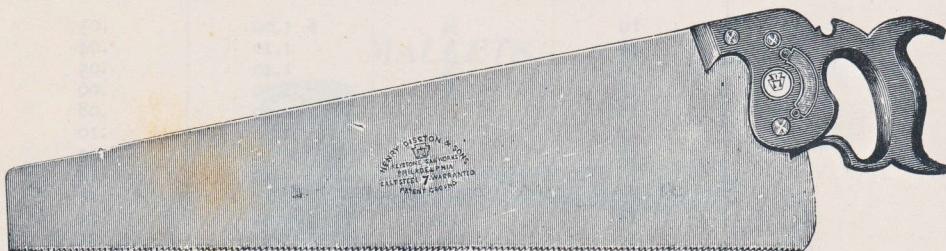
HAND AND RIP SAWS.



H. E. Tredway's Patent Ground.

For beauty, finish and utility this saw cannot be excelled.

H. E. Tredway's Hand, Skew Back, Carved Applewood Handle, Four Nickel Plated Brass Screws, Thin Ground on Back, 26 inches, 6, 7, 8, 9 or 10 point.....	Per doz., \$17.50
H. E. Tredway's Rip, same, 28 inches, 4, 4½, 5, 5½ or 6 point.....	" 20.00



Disston's No. 7.

No. 7. Disston's Hand, Cast Steel, Beech Handle, 26 inches.....	Per doz., \$20.00
" 7. " " Rip " " " 28 " "	" 23.50



Disston's D 8.

D 8 Disston's Hand, Skew Back, Polished Applewood Handle, 26 in	Per doz., \$22.00
D 8 " Rip " " " 28 in.....	" 25.00

HAND, RIP AND PANEL SAWS.



Disston's No. 12.

No. 12. Hand, Disston's Extra Refined London Spring Steel, Carved Handle, 26 inches	Per doz., \$30.00
No. 12. Rip, same, 28 inches	" 34.00



No. 7 Panel.

No. 7 Panel, Disston's Cast Steel, Beech Handle.

Length	16	18	20	22
Per doz.,	\$13.00	14.00	16.00	18.00



No. D 8.

No. D 8 Panel, Disston's Skew Back, Polished Applewood Handle.

Length	16	18	20	22
Per doz.,	\$14.50	16.00	17.50	19.50

BACK AND COMPASS SAWS.

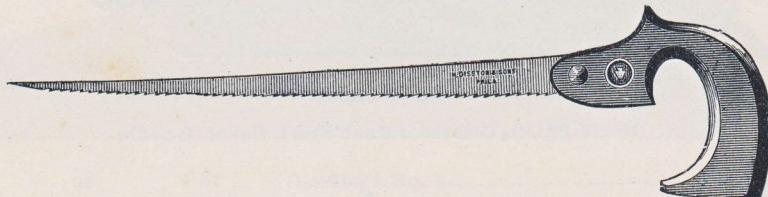


Disston's No. 7 Back.

No. 7. Polished Back, Applewood Handle, Length, inches.....	10	12	14	16
Per doz.,	\$15.00	17.00	19.00	21.00

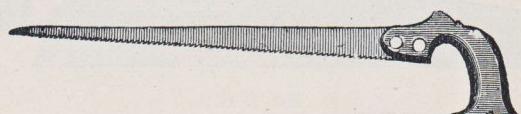
No. 4 Back Saws for Mitre Box.

No. 4. Disston's, 4 inches under back, Length, inches.....	20	22	24
Per doz.,	\$24.00	26.00	28.00



Disston's No. 2 Compass.

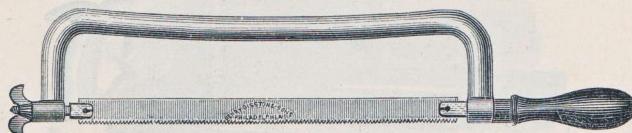
No. 2. Applewood Handle, Length, inches.....	12	14	16
Per doz.,	\$4.50	4.75	5.00



Monumental Compass.

Applewood Handles, Cast Steel, Length, inches.....	12	14	16
Per doz.,	\$3.50	3.75	4.00

HACK SAWS AND BLADES.



Disston's Improved.

Length, inches	8	10	12
Per doz.,	\$13.25	13.75	14.25
Extra Blades, Per doz.,	2.80	3.25	3.75



No. 2. Solid Steel Frame, takes 8-inch Blades, Polished and Nickled,....Per doz., \$12.00

As seen in the above cut, these frames are all made adjustable, so as to face the blades in four different directions. They also have the patent staple-shaped pins to hold the blades in the frame, which are so arranged that they cannot fall out.

STAR HACK SAW BLADES.

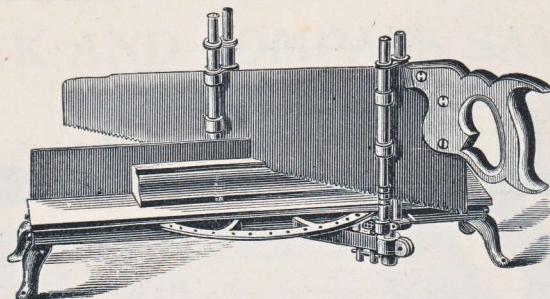
Length of Blade, inches	8	10
Per doz.,	\$ 1.00	1.25

These saws have a file temper, so that a blade costing 5 cents will cut iron and soft steel steadily for several hours, doing more work than \$1.00 worth of files. Both the frames and blades of the Star Saws are now as perfect as human skill can make them.

FELLOE WEB SAW BLADES.

8 inches, 19 guage, $\frac{3}{16}$ to $\frac{1}{2}$ wide	Per doz., \$1.45
10 " 18 " $\frac{1}{16}$ to $\frac{1}{2}$ "	" 1.60
12 " 18 " $\frac{1}{8}$ to $\frac{1}{2}$ "	" 1.85
14 " 17 " $\frac{1}{4}$ to $\frac{1}{2}$ "	" 2.10
16 " 17 " $\frac{1}{4}$ to $\frac{5}{8}$ "	" 2.35
18 " 17 " $\frac{1}{4}$ to $\frac{5}{8}$ "	" 2.70
20 " 17 " $\frac{1}{4}$ to $\frac{3}{4}$ "	" 3.00
22 " 17 " $\frac{1}{4}$ to $\frac{3}{4}$ "	" 3.30
24 " 17 " $\frac{1}{4}$ to $\frac{7}{8}$ "	" 3.65
26 " 17 " $\frac{1}{4}$ to $\frac{7}{8}$ "	" 4.00
28 " 17 " $\frac{1}{4}$ to 1 "	" 4.40
30 " 16 " $\frac{1}{4}$ to 1 "	" 4.80

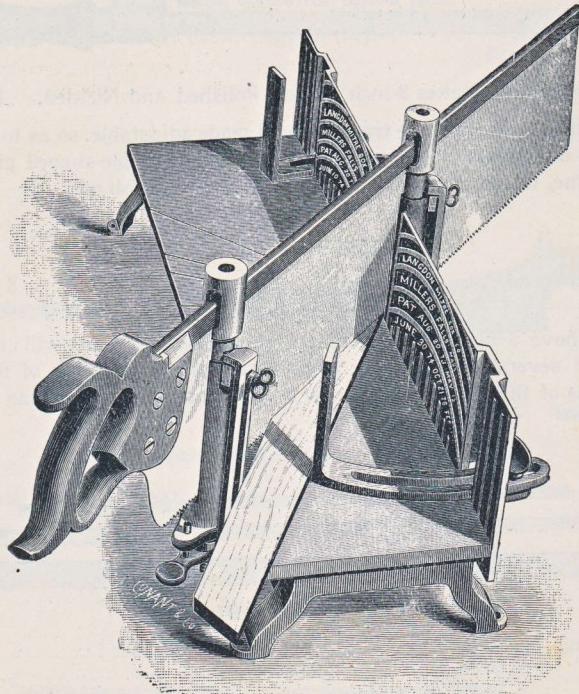
MITRE BOXES.



STANLEY'S IMPROVED.

This Mitre Saw can be used with a Back Saw or a Panel Saw equally well. If a Back saw is used, both links which connect the rollers, or guides, are left in the upper grooves, and the back of the saw is passed through under the links. If a Panel Saw is used, the link which connects the rollers on the back spindle is changed to the lower groove; and then the blade of the saw will be stiffly supported by both sets of rollers, and work like a Back Saw.

No. 50. Mitre Box, 20 inches	Each, \$ 7.00
" 60. " " " " with 20 inch Disston's Back Saw	" 10.00

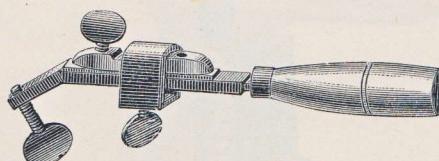


NEW LANGDON IMPROVED.

The New Langdon Improved has the additional feature of easy adjustment to any possible angle desired (by using the circular arms or guides), from right angles to 73 degrees, and is adjustable for mitering circular work in patterns, emery wheels and segments of various kinds.

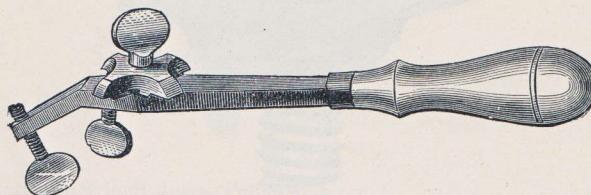
No. 1. Without Saw, capacity at right angles, 6 inches in width, at Mitre, 4 inches in width	Each, \$ 8.25
No. 1. With Disston's No. 4, 24 inch Saw, same capacity as above	" 10.50

SAW SETS.



Common Lever.

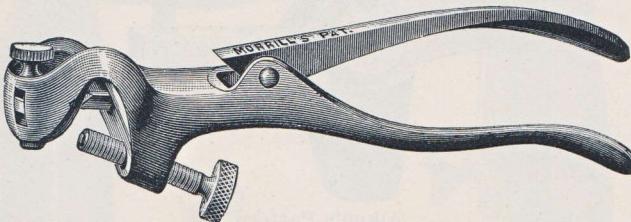
No. 30. Lever, Common, Wood Handle Per doz., \$2.40



Stillman's Pattern.

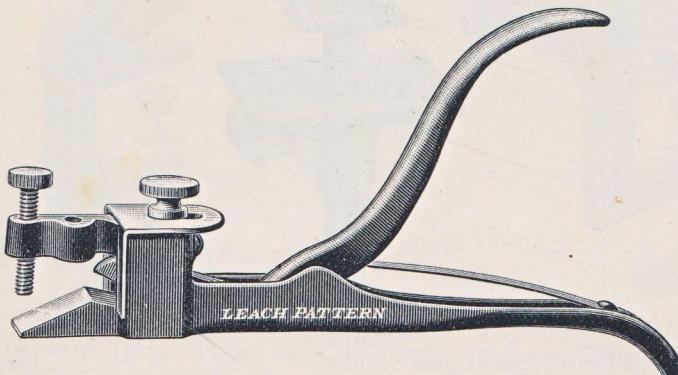
No. 40. Stillman's Pattern, Best Cast Steel, Wood Handle Per doz., \$2.80
 " 45. " " " for Cross Cut Saws, Best Cast Steel, Wood Handle " 5.50

No. 1



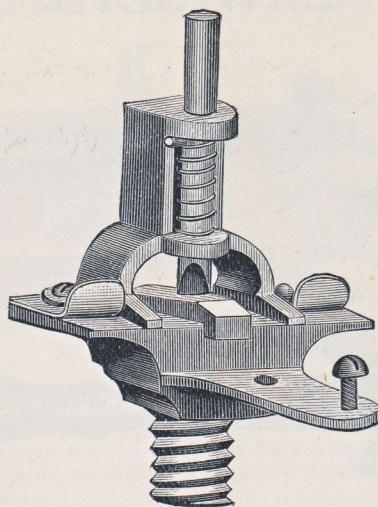
Morrill's Pattern.

No. 1. Morrill's Improved, for all ordinary Saws Per doz., \$15.00
 " 4. " " " for Cross Cut and small Circular Saws " 24.00



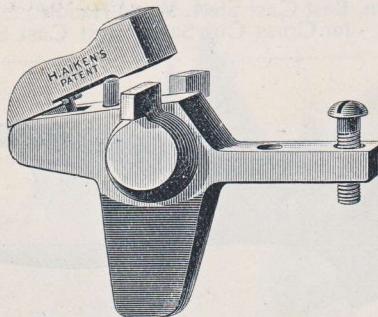
Leach's Patent.

No. 0. Leach's Patent, for all ordinary Saws Per doz., \$13.50

HAMMER SAW SETS.

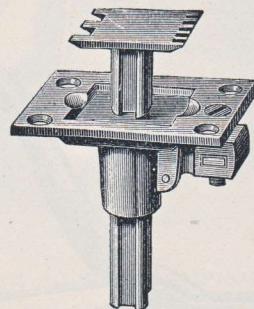
Smith's Pattern.

No. 15. Smith's Pattern, Hammer Saw Sets Per doz., \$10.00



Aiken's Pattern.

No. 5. Aiken's Pattern, Cast Steel Per doz., \$8.50

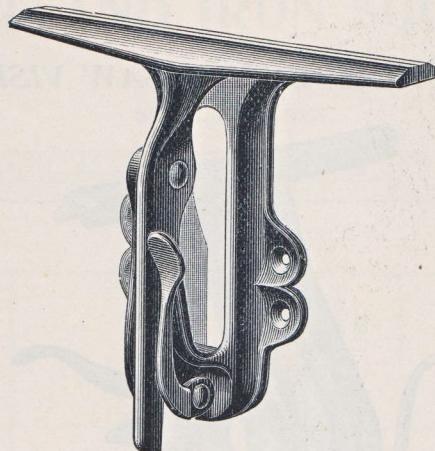
BENCH HOOKS.

Morrill's.

No. 1. Morrill's Perfect, Square Steel Spindle Per doz., \$9.00

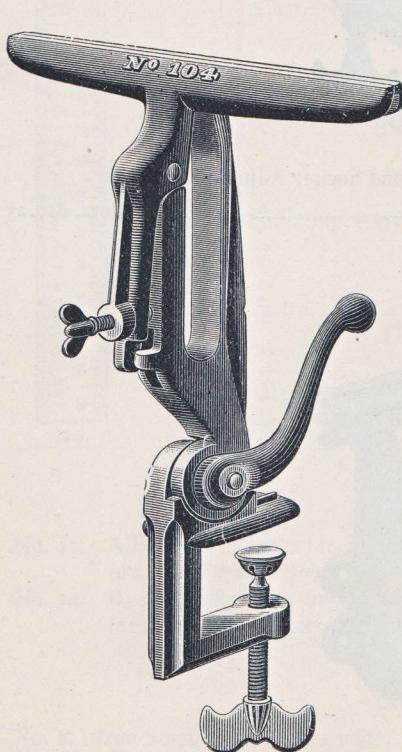
Smith's Pattern.

Smith's Pattern, Adjusting Screw Per doz., \$6.00

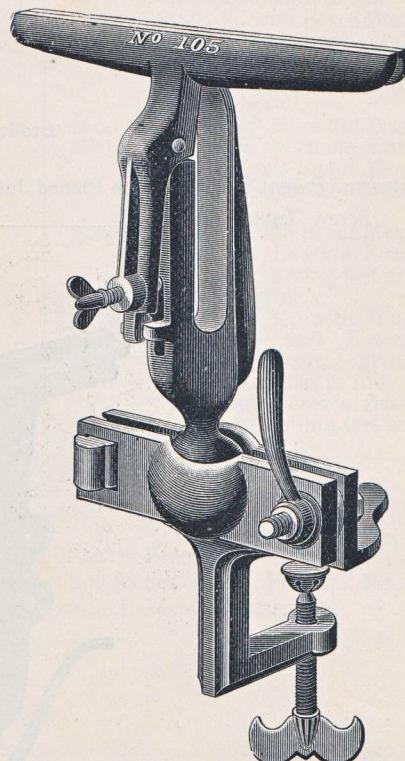
SARGENT'S SAW VISES.

No. 100.

No. 100. Japanned, 9½ inch Jaws, Polished Face..... Per doz., \$7.50

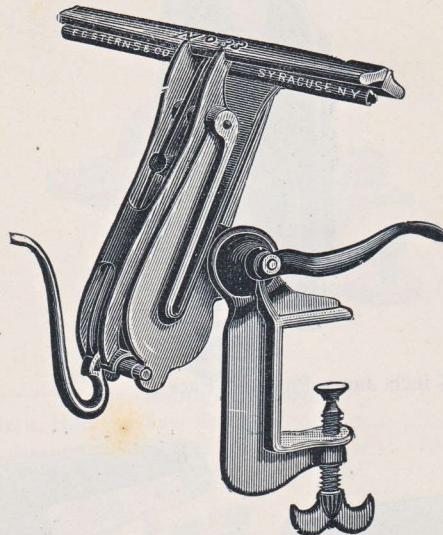


No. 104.



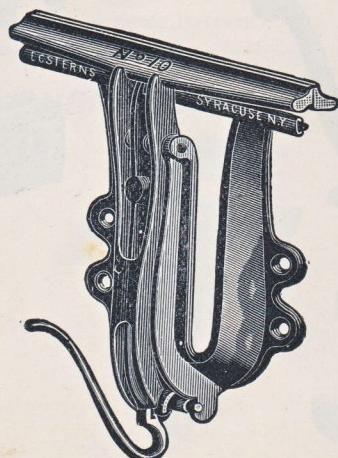
No. 105.

No. 104. Japanned, 9½ inch Planed Jaws, Adjustable, with Screw Table Clamp.....	Per doz., \$ 9.75
No. 105. Japanned, 9½-inch Planed Jaws, Ball and Socket Adjustment, Screw Table Clamp	" 12.75

STEARNS' SILENT SAW VISES.

Stearns' No. 33.

Stearns' Patent Silent, 10-inch Planed Jaws, Ball and Socket Adjustment,
Screw Table Clamp..... Per doz., \$17.25



Stearns' No. 10.

Stearns' Patent Silent, with 10-inch Planed Jaws, Rubber Cushioned..... Per doz., \$15.75

STEEL AND IRON SQUARES.

STEEL SQUARES.



No.		Width, inches.	Fine Polished. Per Doz.	
100	Cast Steel, Improved	2	\$66.00	$\frac{3}{2}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, with Brace Measure, 8 square and $\frac{1}{10}$ th scale, and Essex's Board Measure, giving feet and inches in full.
I	Cast Steel, Drafting	2	48.00	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, with Brace Measure, 8 square and $\frac{1}{10}$ th scale, and Essex's Board Measure, giving feet and inches in full.
2	Cast Steel, Finish.....	2	44.00	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{4}$, with Brace Measure, 8 square scale, and Essex's Board Measure, giving feet and inches in full.
3	Sup. Sup. Extra.....	2	35.00	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, with Brace Measure, and Essex's Board Measure, giving feet and inches in full.
5	Extra	2	32.50	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, with Brace Measure, and Essex's Board Measure, giving feet and inches in full.
7	B	2	30.00	$\frac{1}{2}$, $\frac{1}{4}$, and Essex's Board Measure, giving feet and inches in full.

No. 3.

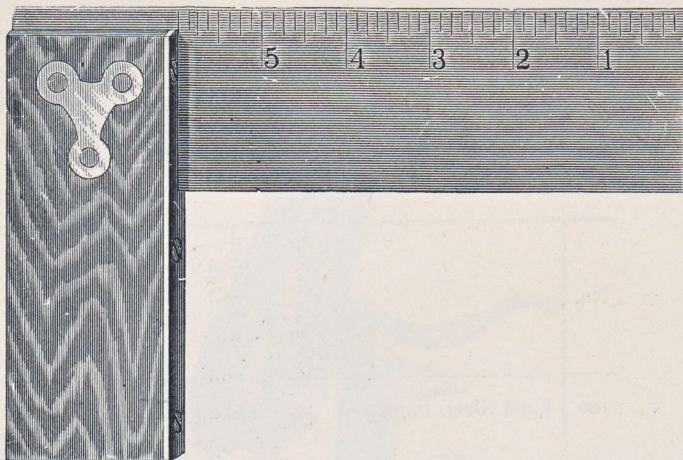
EAGLE SQUARES.

- No. 13. A Brace, 2 inches wide, finely polished, $\frac{1}{8}$, $\frac{1}{4}$, with Brace Measure, and Essex's Board Measure, giving feet and inches in full...Per doz., \$27.00
 No. 14. B, 2 inches wide, finely polished, $\frac{1}{8}$, $\frac{1}{4}$, with Essex's Board Measure, giving feet and inches in full..... " 25.50

IRON SQUARES.

- No. 1. Iron Square, $1\frac{1}{2}$ inches wide, $\frac{1}{8}$, marked on one side Per doz., \$10.00
 No. 2. " " $1\frac{1}{2}$ " " $\frac{1}{8}$, $\frac{1}{4}$, marked on both sides " 12.00
 No. 4. " " 2 " " $\frac{1}{8}$, $\frac{1}{4}$, " " " " " 16.00

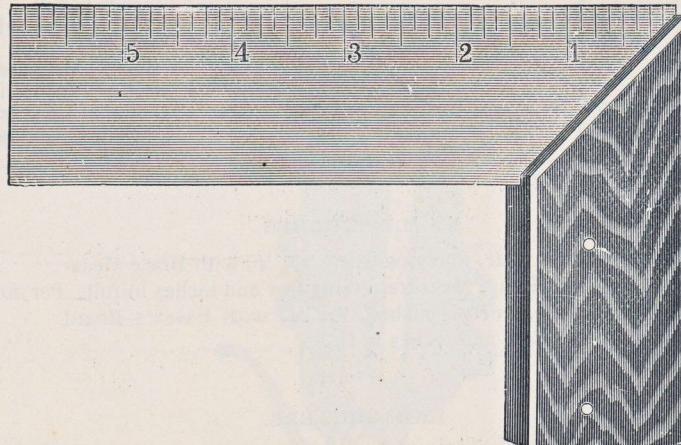
Steel Squares, one-quarter dozen in a box.
 Iron Squares, one-half dozen in a box.

TRY SQUARES.**No. 20, Rosewood Handle, Graduated Steel Blade, Brass Face Plate.**

Inches	3	4½	6	7½	9	10	12
Per doz.,	\$3.00	3.75	5.00	5.75	6.50	7.25	8.50

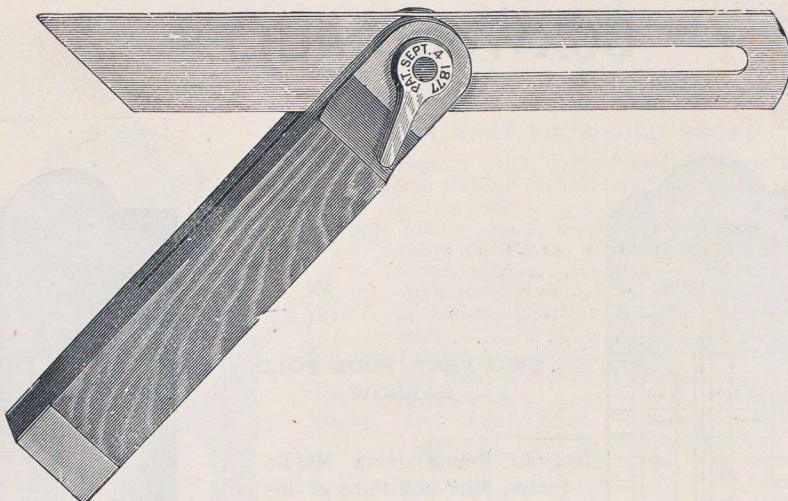
Winterbottom's Patent Combined Try and Mitre Square.

This tool can be used with equal convenience and accuracy as a Try Square or a Mitre Square. By simply changing the position of the handle and bringing the mitred face at the top of the handle against one edge of the work in hand, a perfect mitre, or angle of 45 degrees, can be struck from either edge of the blade.

**No. 2, Rosewood Handle, Graduated Steel Blades, Square Inside and Out.**

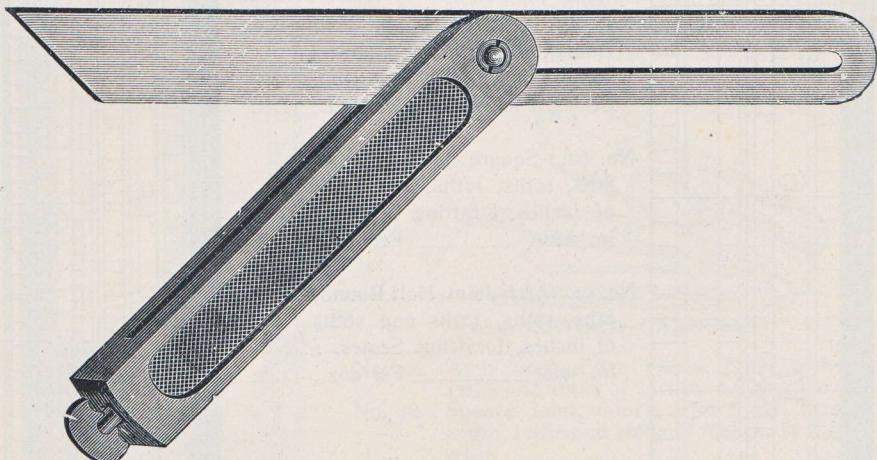
Inches	4½	6	7½	9	12
Per doz.,	\$4.50	5.00	6.00	7.00	9.00

One-half dozen in a box.

SLIDING T BEVELS.***No. 25, Rosewood Handle, with Brass Lever (Flush).***

The Bevel Blade can be made fast or loose by moving the Lever with the thumb of the hand which grasps the Handle, thus leaving the other hand of the workman free.
Bevels with Thumb Screws will be furnished if so ordered.

Inches.....	6	8	10	12	14
Per doz.,.....	\$5.50	6.00	6.50	7.00	7.50
One-half dozen in a box.					

PATENT EUREKA FLUSH T BEVELS.***No. 18, Iron Handle, Steel Blade, with Parallel Edges.***

The Blade is easily secured at any angle by turning the Thumb Screw at the lower end of the Handle.

Inches	6	8	10
Per doz.,.....	\$6.00	6.50	7.50
One-half dozen in a box.			

BOXWOOD RULES.



No. 68.

**TWO FEET, FOUR FOLD,
NARROW.**

No. 68. Round Joint, Middle Plates, 8ths and 16ths of inches, 1 in. wide,..... Per doz., 4.00

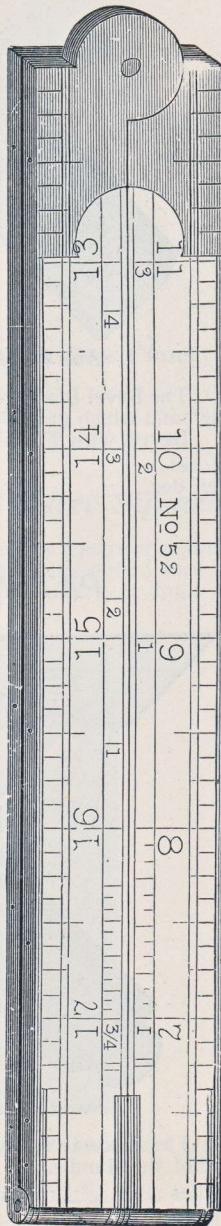
No. 61. Square Joint, Middle Plates, 8ths and 16ths of inches, 1 in. wide,..... Per doz., 5.00

No. 63. Square Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths of inches, Drafting Scales, 1 in. wide..... Per doz., 7.00

No. 84. Square Joint, Half Bound, 8ths, 10ths, 12ths and 16ths of inches, Drafting Scales, 1 in. wide..... Per doz., 12.00

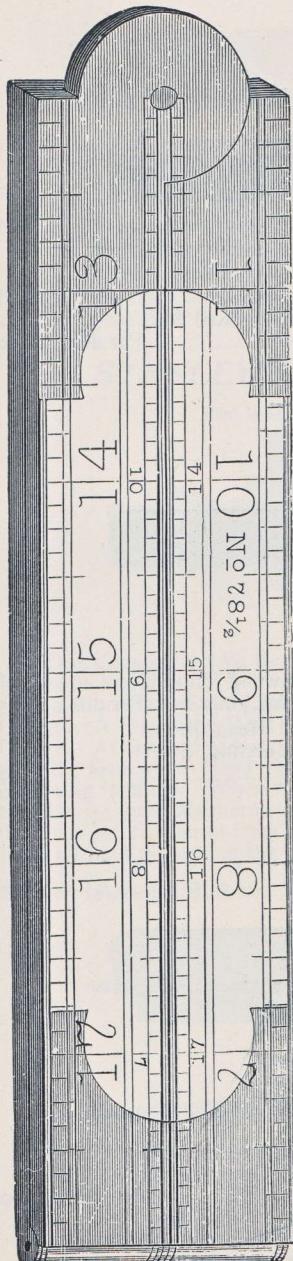
No. 62. Square Joint, Bound, 8ths, 10ths, 12ths, and 16ths of inches, Drafting Scales, 1 in. wide..... Per doz., 15.00

No. 52. Arch Joint, Half Bound, 8ths, 10ths, 12ths and 16ths of inches, Drafting Scales, 1 in. wide..... Per doz., 13.00



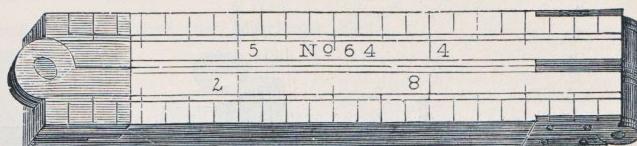
No. 52.

BOXWOOD RULES.

No. 78 $\frac{1}{2}$.

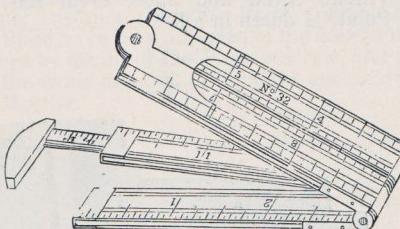
TWO FEET, FOUR FOLD, BROAD.

- No. 72. Square Joint, Edge Plates, 8ths, 10ths and 16ths of inches, Drafting Scales, $1\frac{3}{8}$ inches wide Per doz., \$9.00
 No. 72 $\frac{1}{2}$ Square Joint, Bound, 8ths, 10ths and 16ths of inches, Drafting Scales, $1\frac{3}{8}$ inches wide Per doz., 18.00
 No. 76. Arch Joint, Bound, 8ths, 10ths and 16ths of inches, Drafting Scales, $1\frac{3}{8}$ inches wide Per doz., 20.00
 No. 78 $\frac{1}{2}$ Double Arch Joint, Bound, 8ths, 10ths and 16ths of inches, Drafting Scales, $1\frac{3}{8}$ inches wide Per doz., 24.00
 No. 83. Arch Joint, Edge Plates, Slide, 8ths, 12ths and 16ths of inches, 10ths of a foot, and Octagonal Scales, $1\frac{3}{8}$ inches wide Per doz., 14.00



ONE FOOT, FOUR FOLD, NARROW.

- No. 69. Round Joint, Middle Plates, 8ths and 16ths of inches, $\frac{5}{8}$ inch wide Per doz., \$3.00
 No. 65. Square Joint, Middle Plates, 8ths and 16ths of inches, $\frac{5}{8}$ inch wide Per doz., 3.50
 No. 55. Arch Joint, Middle Plates, 8ths and 16ths of inches, $\frac{5}{8}$ inch wide Per doz., 4.00
 No. 57. Arch Joint, Bound, 8ths and 16ths of inches, $\frac{5}{8}$ inch wide Per doz., 12.00



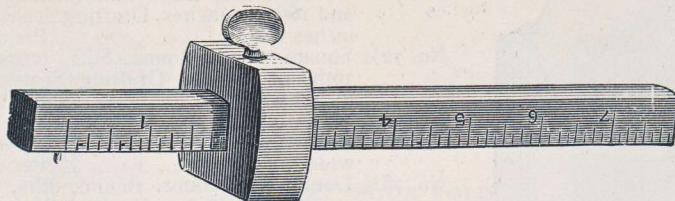
BOXWOOD CALIPER.

- Per Doz.
- No. 32. Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths of inches, 1 inch wide 12.00
 No. 36. Square Joint, 6-inch, Two Fold, 8ths, 10ths, 12ths and 16ths of inches, $\frac{5}{8}$ inch wide 7.00

IVORY CALIPER, ONE FOOT, FOUR FOLD.

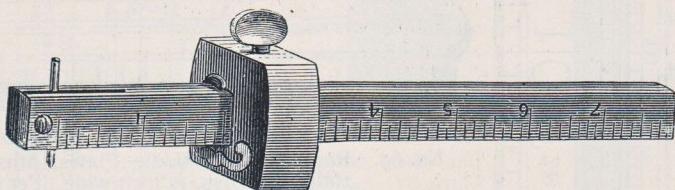
- No. 39. Square Joint, German Silver, Bound, 8ths, 10ths, 12ths and 16ths of inches, $\frac{5}{8}$ inch wide 38.00
 No. 40. Square Joint, German Silver, Bound, 8ths and 16ths of inches, $\frac{5}{8}$ inch wide 44.00

MARKING GAUGES.



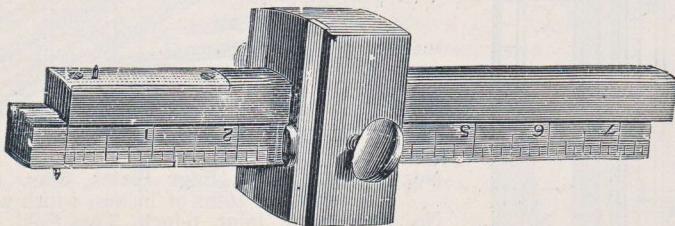
No. 61.

- No. 61. Marking Gauge, Beechwood, Boxwood Thumb Screw, Oval Bar, Marked, Steel Point, 1 dozen in a box Per doz., \$1.00



No. 65.

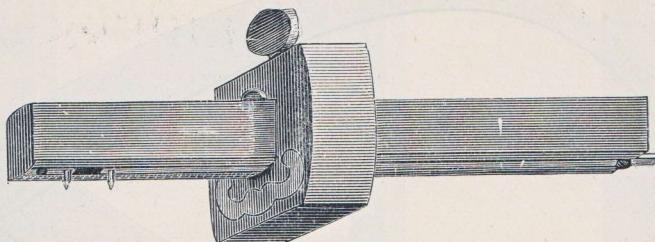
- No. 64. Patent Marking Gauge, Polished, Plated Head, Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point, 1 doz., in a box, Per doz., \$2.75
 " 65. Patent Marking Gauge, Boxwood, Polished, Plated Head, Brass Thumb Screw and Shoe, Oval Bar, Marked, Adjusting Steel Point, $\frac{1}{2}$ dozen in a box " 5.00



No. 72.

- No. 72. Patent Double Gauge (Marking and Mortise Gauge combined), Beechwood, Polished, Boxwood Thumb Screws, Oval Bars, Marked, Steel Points, $\frac{1}{2}$ dozen in a box Per doz., \$4.00
 " 74. Patent Double Gauge (Marking and Mortise Gauge combined), Boxwood, Polished, Full Plated Head and Bars, Brass Thumb Screws and Shoes, Oval Bars, Marked, Steel Points, $\frac{1}{2}$ dozen in a box " 14.00

MARKING GAUGES.

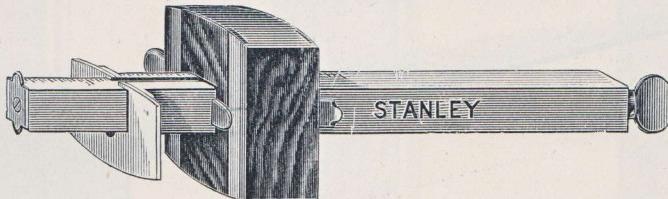


No. 76.

- No. 76. Patent Mortise Gauge, Boxwood, Polished, Plated Head, Screw Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points, $\frac{1}{2}$ dozen in a box Per doz., \$11.00
 No. 67. Mortise Gauge, Adjustable Wood Slide, Boxwood Thumb Screw, Oval Bar, Marked, Steel Points, $\frac{1}{2}$ dozen in a box Per doz., 4.00

STANLEY'S BUTT AND RABBET GAUGE.

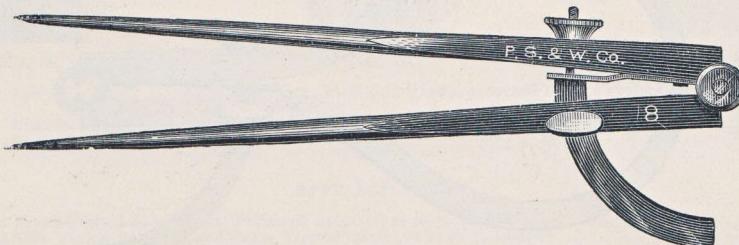
For Hanging Doors, Mortising, Marking, Etc.



This Gauge has two Bars, both of Brass, one movable within the other; also three Blades or Markers. The two Steel Blades or Markers at the extreme end of the inner Bar can be moved to any position by means of the Thumb Screw at the opposite end of the Gauge. A Rosewood Head on the outer Bar makes the ordinary Marking or Slitting Gauge. At one end of the outer Bar a Steel Plate or Stop is attached, and in connection with the Rosewood Head set at the proper distance from the Plate, a double Head for Mortising is made. When the Head and Plate have been adjusted to the desired width for the Mortise, both Markers can still be moved by means of the Thumb Screw, and the Mortise lines set further in from the edge of the work in hand, or brought out nearer to the edge, without disturbing the width of the Mortise.

No. 92—Improved Butt and Rabbet Gauge Each, \$1.25

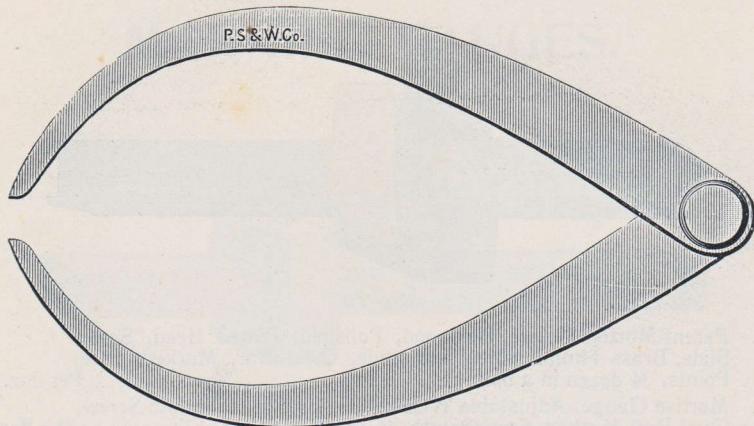
DIVIDERS.



Wing Dividers, Cast Steel, Polished.

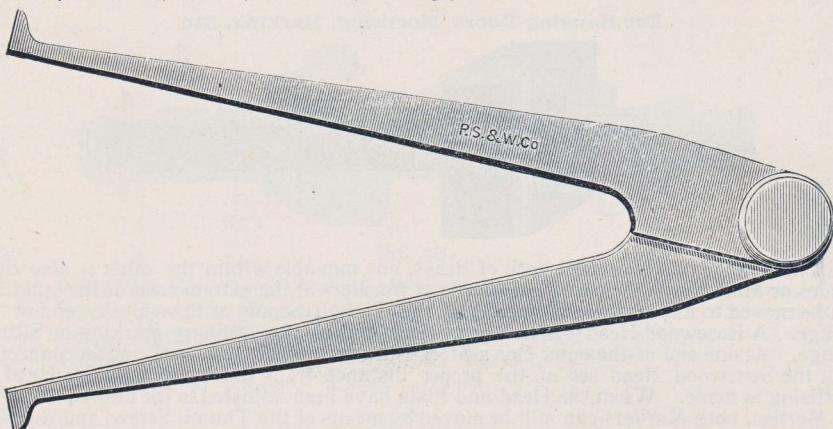
Inches.....	6	7	8	9	10	12	15
Per Dozen	\$5.50	6.50	7.50	9.00	10.00	12.00	18.00

CALIPERS.



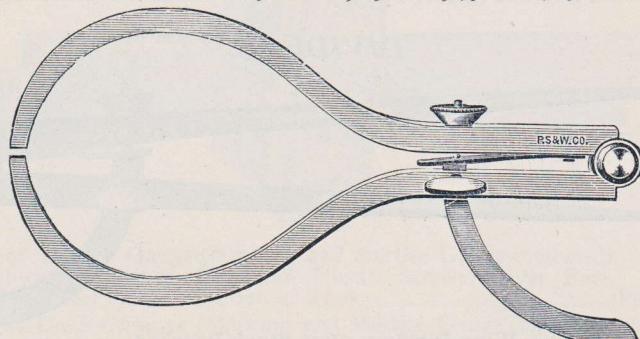
No. 110, Outside Calipers, Cast Steel, Polished.

Inches.....	2½	3	4	5	6	8	10	12
Per doz.,	\$4.00	4.00	4.50	5.50	6.00	7.00	8.50	10.00



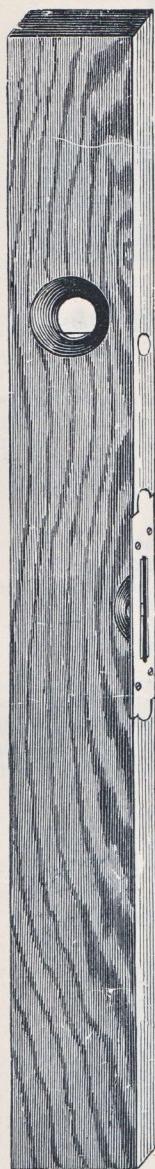
No. 105, Inside Calipers, Cast Steel, Polished.

Inches.....	3	4	5	6	8	10
Per doz.,	\$3.00	3.25	3.75	4.25	6.50	8.00

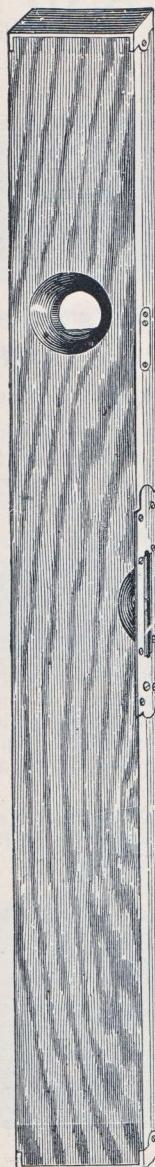


No. 101, Wing Calipers, Cast Steel, Polished.

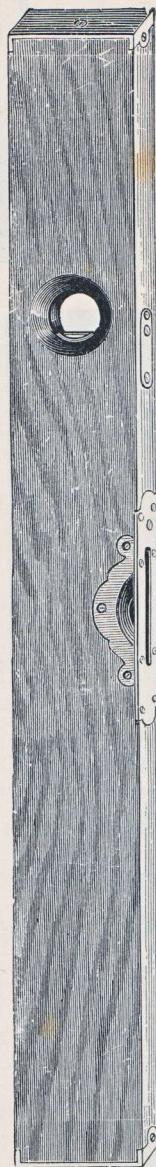
Inches.....	4	5	6	7	8	10	12
Per doz.,	\$5.00	6.00	7.00	8.00	9.00	11.00	13.00

STANLEY'S PLUMBS AND LEVELS.

No. 0.



No. 3.



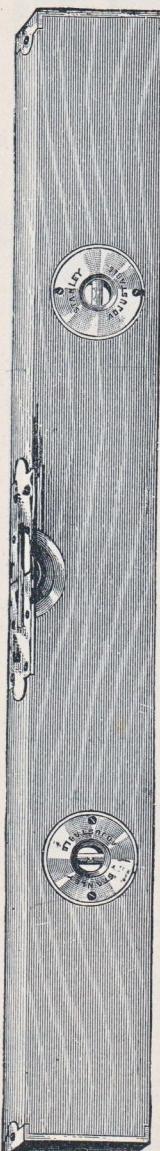
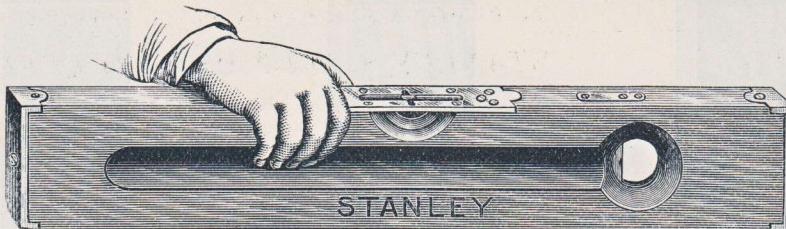
Nos. 4 and 9.

No.	102.	Levels,	Arch Top Plate, Two Side Views, assorted 10 to 16 inches.....	Per doz.	\$ 9.00
"	103.	"	" "	"	12.00
"	104.	Plumbs and Levels,	" "	"	14.00
"	00.	"	" "	"	16.00
"	0.	"	" "	"	18.00

Arch Top Plate.

No.	Per doz.
2.	Two Brass Lipped Side Views, Polished, assorted 24 to 30 inches
3.	Two Side Views, Polished and Brass Tipped, assorted 24 to 30 inches.....
4.	Two Brass Lipped Side Views, Polished and Brass Tipped, assorted 24 to 30 inches.....
5.	Triple Stock, 2 Ornamental Brass Lipped Side Views, Polished and Tipped, assorted 24 to 30 in.,
6.	Mahogany, Two Brass Lipped Side Views, Polished, assorted 24 to 30 inches.....
9.	Mahogany, 2 Ornamental Brass Lipped Side Views, Polished and Tipped, assorted 24 to 30 in.,
10.	Triple Mahogany Stock, 2 Ornamental Brass Lipped Side Views, Polished and Tipped, assorted 24 to 30 inches.....

PLUMBS AND LEVELS.



Stanley's Patent Hand-y Plumbs and Levels.

The shallow grooves along the two sides of these Levels afford an excellent grip on the tool. In climbing ladders, walking on stagings or on the frame of a building, the peculiar form of the Level imparts a feeling of steadiness to the workman who carries it. For ascertaining a plumb, it can be brought to a perpendicular position with remarkable ease and accuracy.

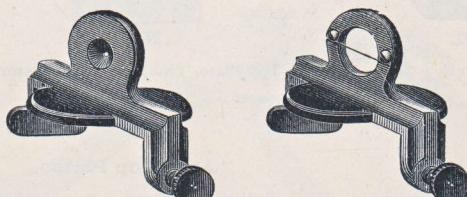
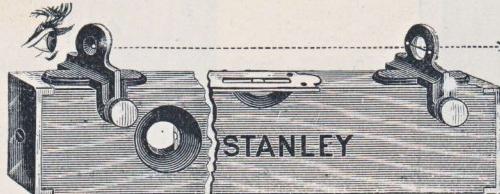
- No. 16. Hand-y Plumb and Level, Adjustable, Cherry, Arch Top Plate, Two Side Views, Polished and Tipped, Assorted 24 to 30 inch..... Per doz., \$36.00

Stanley's Patent Duplex Levels.

These Levels have the ordinary form of Leveling Glass, set in the top surface of the Stock, and an additional Leveling Glass is set in the side, at the opposite end from the Plumb. Both Glasses are protected by Brass Discs; can be seen from either side, and are inserted in the Level with the least possible removal of Wood from the Stock.

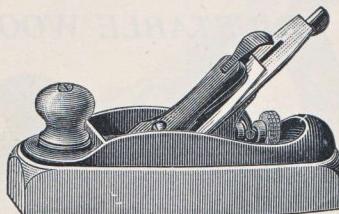
- No. 30. Duplex Plumb and Level, Cherry, Arch Top Plate, Duplex Side Views, Polished, Tipped, Assorted 24 to 30 inch Per doz., \$44.00

Stanley's Improved Level Sights.

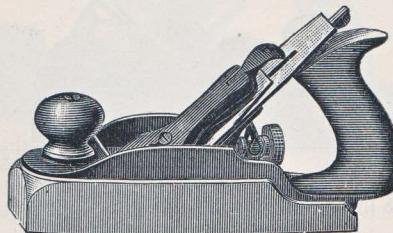


By the use of these ingenious devices, which can be attached to any Level, the owner has a convenient and accurate means for leveling from one given point to another at a long distance away.

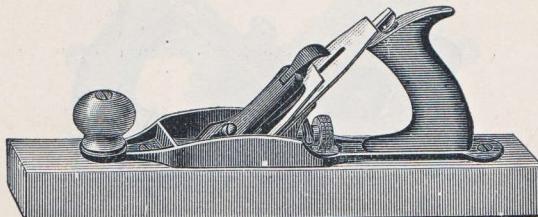
- No. 1. Improved Level Sights, per pair, in a box \$1.75

BAILEY'S ADJUSTABLE WOOD PLANES.

No. 21.	Smooth Plane,	7	inches in Length,	$1\frac{3}{4}$	inch Cutter	Each, \$2.00	
" 22.	" "	8	" "	$1\frac{3}{4}$	" "	" 2.00	
" 23.	" "	9	" "	$1\frac{3}{4}$	" "	" 2.00	
" 24.	" "	8	" "	2	" "	" 2.00	
" 25.	Block	"	$9\frac{1}{2}$	" "	$1\frac{3}{4}$	" "	" 2.00



No. 35.	Handle Smooth,	9	inches in Length,	2	inch Cutter	Each, \$2.50	
" 36.	" "	10	" "	$2\frac{3}{8}$	" "	" 2.75	
" 37.	Jenny	"	13	" "	$2\frac{3}{8}$	" "	" 3.00



No. 26.	Jack Plane,	15	inches in Length,	2	inch Cutter	Each, \$2.25
" 27.	" 15	"	"	$2\frac{1}{8}$	" "	" 2.50
" 28.	Fore	" 18	"	$2\frac{3}{8}$	" "	" 2.75
" 29.	"	20	"	$2\frac{3}{8}$	" "	" 2.75
" 30.	Jointer	" 22	"	$2\frac{3}{8}$	" "	" 3.00
" 31.	"	24	"	$2\frac{3}{8}$	" "	" 3.00
" 32.	"	26	"	$2\frac{5}{8}$	" "	" 3.25
" 33.	"	28	"	$2\frac{5}{8}$	" "	" 3.25
" 34.	"	30	"	$2\frac{5}{8}$	" "	" 3.50

BAILEY'S PLANE IRONS.

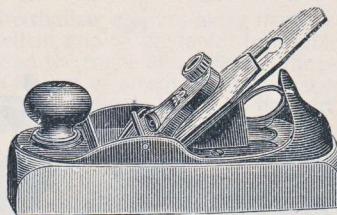
Inches	$1\frac{1}{4}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{5}{8}$
Single Irons, Each.....	\$.20	.25	.28	.30	.33	.37	.40
Double Irons, " .....	.40	.45	.50	.55	.60	.65	.70

Orders for Plane Irons should designate the Number of the Planes for which they are wanted.

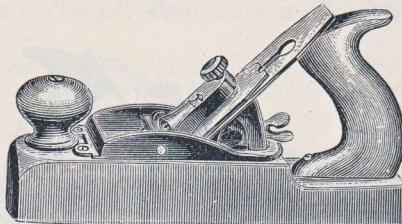
STANLEY'S ADJUSTABLE WOOD PLANES.

THESE PLANES ARE ADJUSTED BY A LEVER.

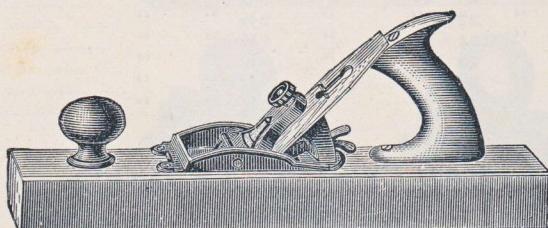
Especially adapted for working on
Soft Wood.



No. 122. Smooth Plane, 8 inches in Length, 1 $\frac{3}{4}$ inch Cutter..... Each, \$1.50

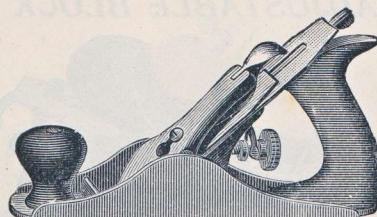


No. 135. Handle Smooth, 10 inches in Length, 2 $\frac{1}{8}$ inch Cutter..... Each, \$2.00

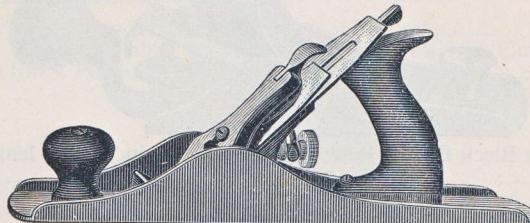


No. 127. Jack Plane, 15 inches in Length, 2 $\frac{1}{8}$ inch Cutter.....	Each, \$2.00
" 129. Fore " 20 " " 2 $\frac{3}{8}$ " "	" 2.25
" 132. Jointer " 26 " " 2 $\frac{5}{8}$ " "	" 2.50

BAILEY'S PATENT ADJUSTABLE PLANES.
IRON PLANES.

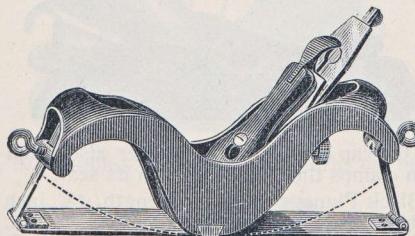


No. 1. Smooth Plane,	5½ inches in Length,	1¼ inch Cutter.....	Each, 2.25
" 2. " "	7 " "	1 5/8 " "	" 2.75
" 3. " "	8 " "	1 3/4 " "	" 3.00
" 4. " "	9 " "	2 " "	" 3.25



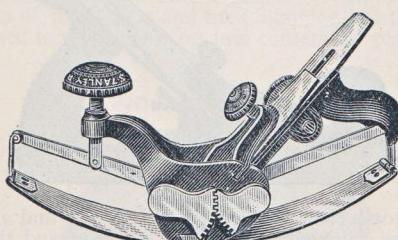
No. 5. Jack Plane,	14 inches in Length,	2 inch Cutter.....	Each, \$3.75
" 6. Fore " "	18 " "	2 3/8 " "	" 4.75
" 7. Jointer " "	22 " "	2 3/8 " "	" 5.50
" 8. " "	24 " "	2 3/8 " "	" 6.50

BAILEY'S ADJUSTABLE CIRCULAR PLANE.

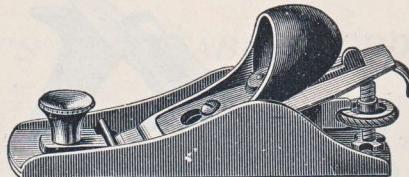


No. 13. Circular Plane,	1 3/4 inch Cutter	Each, \$4.00
This Plane has a Flexible Steel Face, and by means of the Thumb Screws at each end of the Stock, can be easily adapted to plane circular work—either concave or convex.		

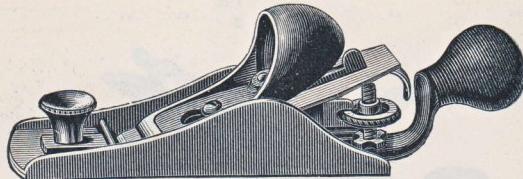
STANLEY ADJUSTABLE CIRCULAR PLANE.



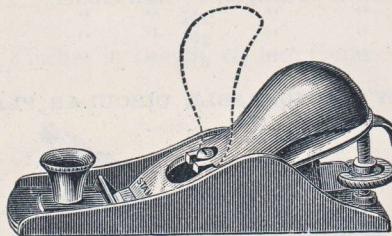
No. 113. Adjustable Circular Plane,	1 3/4 inch Cutter	Each, \$4.00
This Plane has a Flexible Steel Face, which can be easily shaped to any required arc, either concave or convex, by turning the Knob on the front of the Plane.		

BAILEY'S ADJUSTABLE BLOCK PLANES.

No. 9½.	Excelsior Block Plane, 6 inches in Length, 1¾ inch Cutter	Each, \$1.50
" 15.	" " " 7 " " 1¾ " "	" 1.60



No. 9¾.	Excelsior Block Plane, Rosewood Handle, 6 inches in length, 1¾ inch Cutter	Each, \$1.75
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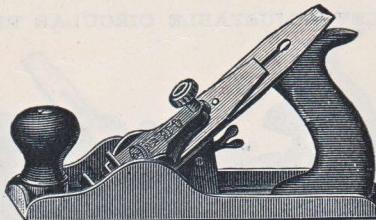
IMPROVED BLOCK PLANES.

The knuckle-joint in the cap constitutes it a lever also; and the single movement of putting the cap in position clamps the cutter firmly in its seat.

No. 18.	Knuckle-Joint Block Plane, 6 inches in Length, 1¾ inch Cutter, Stanley's Lateral Adjustment, Nickle Plated Trimmings	Each, \$1.75
No. 19.	Knuckle-Joint Block Plane, 7 inches in Length, 1¾ inch Cutter, Stanley's Lateral Adjustment, Nickle Plated Trimmings	Each, 1.85

Cutters for above Block Planes, warranted Cast Steel

Per doz., 2.40

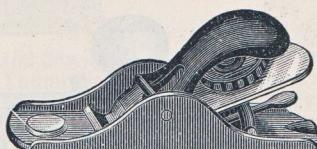
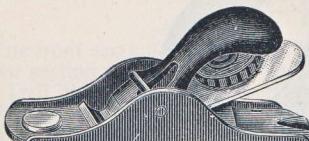
Stanley's Adjustable Steel Planes.

Planes Nos. 104 and 105 have a Wrought Steel Stock, and are adjusted by the use of a Lever. These Planes are commended for their lightness and the ease with which they can be worked.

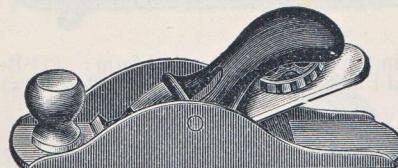
No. 104.	Smooth Plane, 9 inches in Length, 2½ inch Cutter	Each, \$2.75
No. 105.	Jack " 14 " 2½ " "	" 3.50

STANLEY'S IRON BLOCK PLANES.

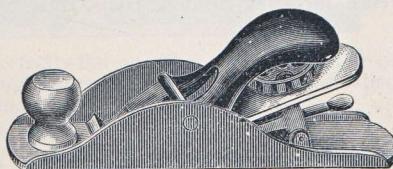
No. 101. Block Plane, $3\frac{1}{2}$ inches in Length, 1 inch Cutter Each, \$.20
Cutters for above Block Plane, warranted Cast Steel Per doz., .75



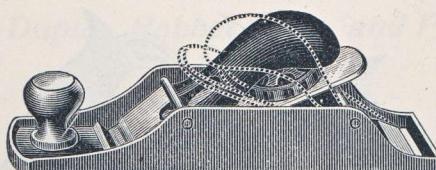
No. 102. Block Plane, $5\frac{1}{2}$ inches in Length, $1\frac{1}{4}$ inch Cutter Each, \$.40
" 103. " " Adjustable, $5\frac{1}{2}$ inches in Length, $1\frac{1}{4}$ inch Cutter " .60
Cutters for above Block Planes, warranted Cast Steel Per doz., 1.50



No. 110. Block Plane, $7\frac{1}{2}$ inches in Length, $1\frac{3}{4}$ inch Cutter Each, \$.60

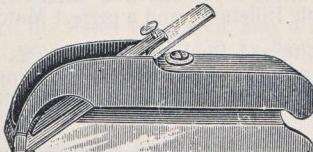


No. 120. Block Plane, Adjustable, $7\frac{1}{2}$ inches in Length, $1\frac{3}{4}$ inch Cutter Each, \$.85



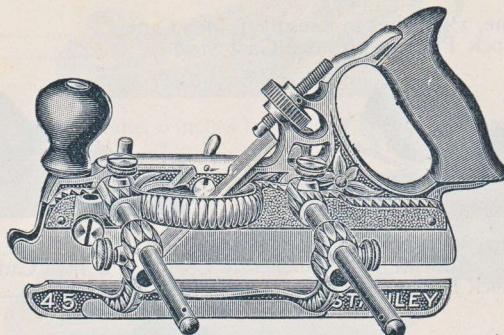
No. 130. Block Plane (Double-Ender), 8 inches in Length, $1\frac{3}{4}$ inch Cutter Each, \$.80

This Plane has two Slots and two Cutter Seats. It can be used as a Block Plane, or, by reversing the position of the Cutter and the Clamping Wedge (see dotted lines in the engraving), it can be used to plane close up into corners, or places difficult to reach with any other plane.

BULL-NOSE RABBET PLANE.

No. 75. Iron Stock, 4 inches in Length, 1 inch Cutter Each, \$.50

Patent Adjustable Beading, Rabbet and Slitting Plane.

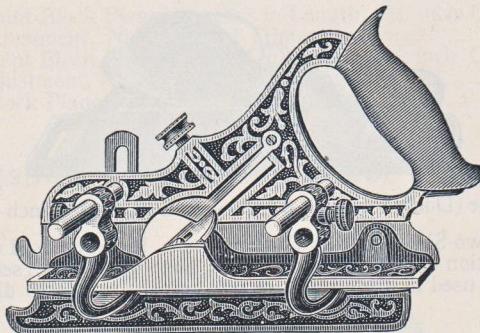


This Plane embraces in a compact and practical form: (1) Beading and Center Beading Plane; (2) Rabbet and Filletster; (3) Dado; (4) Plow; (5) Matching Plane; (6) a superior Slitting Plane.

Each Plane is accompanied by seven Beading Tools ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ inch), nine Plow and Dado Bits ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{1}{8}$ inch), a Slitting Tool and a Tonguing Tool.

No. 45. Iron Stock and Fence, including Beading Tools, Bits, Slitting Tool, etc. \$8.00

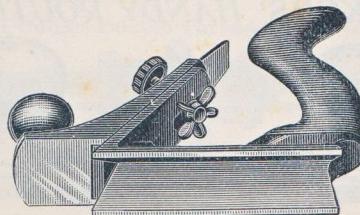
*Miller's Patent Combined Plow, Filletster
and Matching Machine.*



This Tool embraces, in a most ingenious and successful combination, the common Carpenters' Plow, an adjustable Filletster, and a perfect Matching Plane.

With each Tool eight forged Plow Bits ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch), a Filletster and a Slitting Blade are furnished; also a Tonguing Tool ($\frac{1}{4}$ inch), and by use of the latter, with the $\frac{1}{4}$ inch Plow Bit for grooving, a perfect Matching Plane is made.

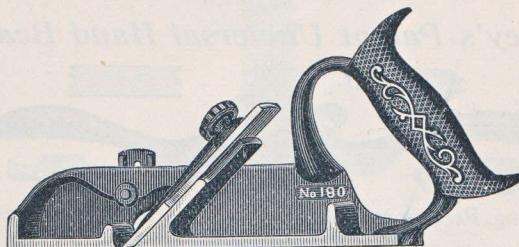
No. 41. Iron Stock and Fence, Combined Plow, Filletster and Matching Plane	\$9.00
" 43. " " " " and Matching Plane, without Filletster	7.00

PATENT ADJUSTABLE CHAMFER PLANE.

The front section of this Plane is movable up and down. It can be firmly secured to the rear section at any desired point by means of a Thumb Screw. Without the use of any other Tool, this Plane will do perfect chamfer or stop-chamfer work of all ordinary widths.

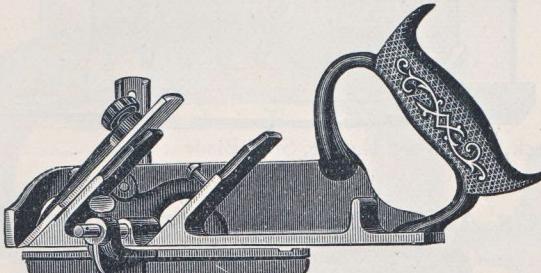
For Beading, Reeding or Moulding a chamfer, an additional section to this Plane is furnished (Price \$1.00) with six Cutters, sharpened at both ends, including a large variety of ornamental forms.

No. 72. Chamfer Plane, 9 inches in length, 1 $\frac{5}{8}$ inch Cutter Each, \$2.00
" 72 $\frac{1}{2}$. " " with Beading and Moulding Attachment " 3.00

PATENT IMPROVED RABBET PLANE.

This Plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners or up against perpendicular surfaces.

No. 180. Iron Stock, 8 inches in Length, 1 $\frac{1}{2}$ inch Wide	Each, \$1.00
" 181. " " 8 " 1 $\frac{1}{4}$ " "	" 1.00
" 182. " " 8 " 1 " "	" 1.00
" 190. " " 8 " 1 $\frac{1}{2}$ " " with Spur	" 1.15
" 191. " " 8 " 1 $\frac{1}{4}$ " " "	" 1.15
" 192. " " 8 " 1 " " "	" 1.15

Patent Duplex Rabbet Plane and Filletster.

The valuable features of this Plane can be seen by a glance at the illustration given above.

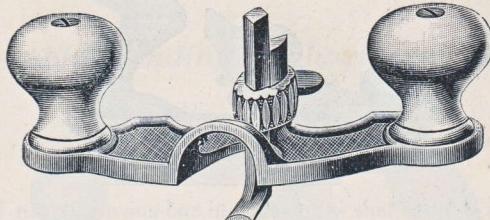
Remove the Arm to which the Fence is secured, and a Handled Rabbet Plane is had; and with two Seats for the Cutter, so that the tool can be used as a Bull-Nose Rabbet if required.

The construction of the Stock is such that the Plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners or up against perpendicular surfaces.

The Arm to which the Fence is secured can be screwed into either side of the Stock, thus making a superior right or left hand Filletster, with Adjustable Spur and Depth Gauge.

No. 78. Iron Stock and Fence, 8 $\frac{1}{2}$ inches in Length, 1 $\frac{1}{2}$ inch Cutter Each, \$1.50

WOODWORKERS' HANDY ROUTER PLANE.

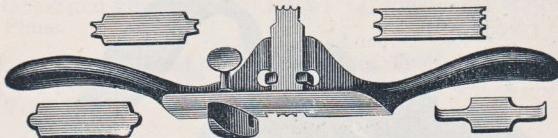


This Tool should be added to the kit of every skilled carpenter, cabinet maker, stair builder, pattern maker or wheelwright. It is perfectly adapted to smooth the bottom of grooves, panels or all depressions below the general surface of any woodwork.

The Bits can also be clamped to the back side of the upright Post, and outside of the Stock. In this position they will plane into corners, will router out mortises for Sash-frame Pulleys, or will smooth surfaces not easily reached with any other tool.

No. 71. Iron Stock, with Steel Bits ($\frac{1}{4}$ and $\frac{1}{2}$ inch) Each, \$1.50

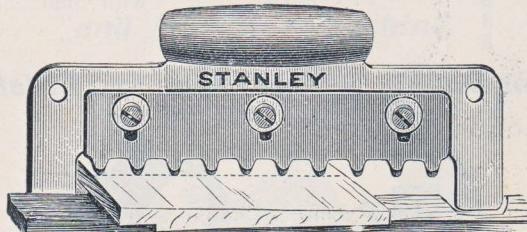
Stanley's Patent Universal Hand Beader.



For Beading, Reeding or Fluting Straight or Irregular Surfaces and for all kinds of Light Routering.

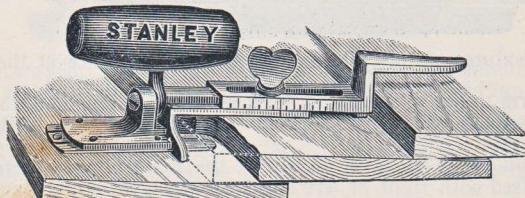
No. 66. Iron Stock, with seven Steel Cutters Each, \$1.00
Extra Cutters or Blanks for same " .05

Stanley's Adjustable Clapboard Siding Marker.



No. 88. Metal Stock, with Wood Handle, Steel Blade Each, \$.50

Stanley's Adjustable Clapboard Siding Gauge.

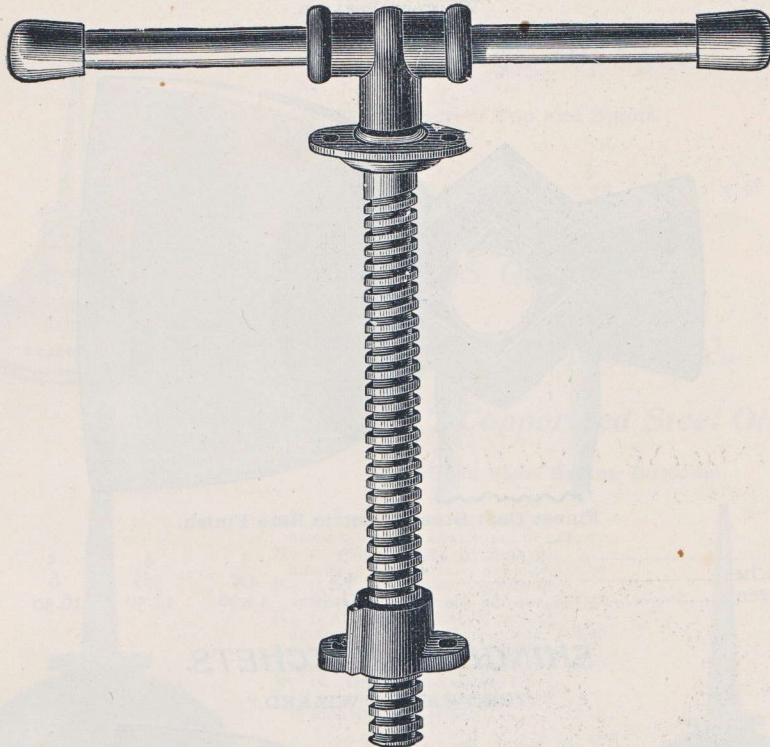


A full set of 3 Gauges is recommended for laying long Clapboards or Siding.

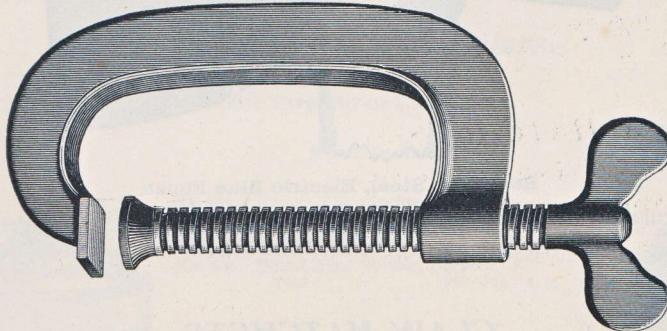
No. 89. Metal Stock, with Wood Handle, Steel Blades Each, \$.50

WROUGHT IRON BENCH SCREWS.

Patent Collar; Double Thread, Wood Handle.



1 inch, Length under Collar 15 inches	Per doz., \$ 6.00
1 1/8 " " " 15 "	" 7.00
1 1/4 " " " 15 "	" 8.50
1 1/2 " " " 16 " Extra Heavy	" 12.50

CARRIAGE CLAMPS.

No. 2500, with Ball and Socket Swivel.

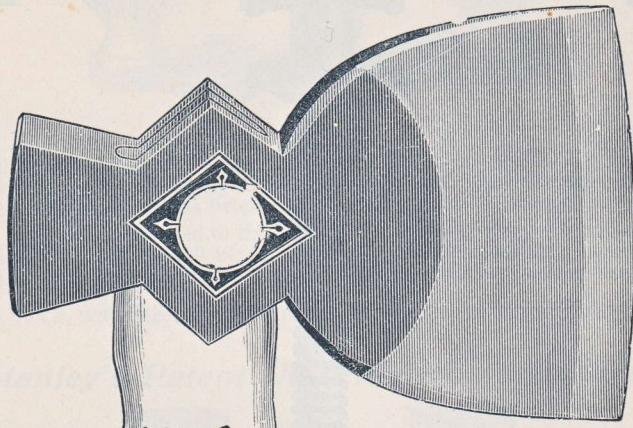
	A	B	C	D	E	F	G	H
Size, in. opening	2 1/2	3	4	5	6	7	8	10
List, per dozen	\$3.00	3.38	4.13	5.10	6.00	7.88	8.25	9.75

All our Clamps are finely Japanned, packed in paper boxes. The Thread is the best machine cut, and they are in every respect a first class strong Clamp.

BROAD HATCHETS.

Western Pattern.

TREDWAY'S "WIZARD"

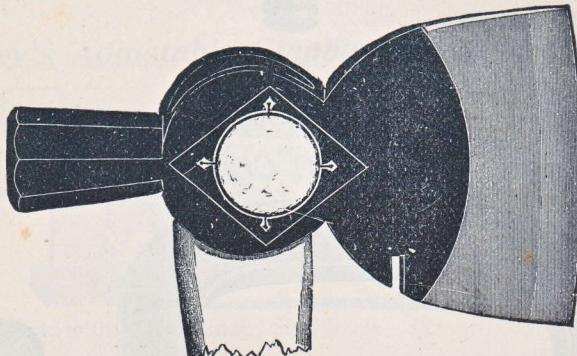


Finest Cast Steel, Electric Blue Finish.

No.	2	3	4	5	6
Cut, inches.	4 1/4	4 3/4	5 1/2	6	6 3/4
Per Dozen.	\$11.50	13.00	14.50	16.50	18.00

SHINGLING HATCHETS.

TREDWAY'S "WIZARD."



Best Cast Steel, Electric Blue Finish.

No. 1.	Regular Pattern, Cut 3 5/8 inches	Per doz., \$8.00
" 2.	" " 3 7/8 "	" 8.50
" 3.	" " 4 1/4 "	" 9.00

CLAW HATCHETS.

Best Cast Steel, Electric Blue Finish.

TREDWAY'S "WIZARD."

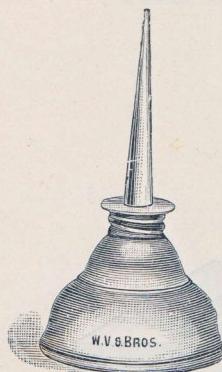
No. 1.	Regular Pattern, Cut 3 5/8 inches	Per dozen, \$9.00
" 2.	" " 3 7/8 "	" 9.50
" 3.	" " 4 1/4 "	" 10.00

OILERS.

SPUN STEEL OILERS.

Patent Screw Top and Spout.

No.	0	1	2	3	4	5	6
List, per doz.,	\$1.25	1.50	2.00	2.25	2.75	3.50	4.50



BRASS OILERS.

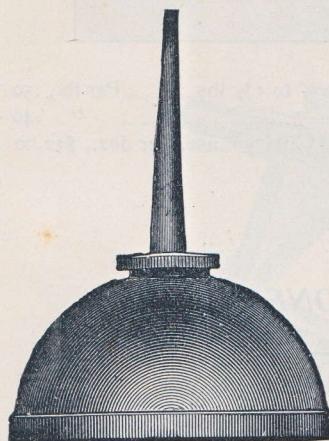
No.	2	3	4
List, per doz.,	\$3.50	4.00	4.75

"Swedoh" Copperized Steel Oilers.

Improved Steel Spring Bottoms.

No. 12. Steel Oiler, 2 $\frac{3}{4}$ inch diameter, 2 $\frac{1}{2}$ inch nozzle, per doz.	\$4.50
No. 13. Steel Oiler, 3 $\frac{3}{4}$ inch diameter, 3 inch nozzle, per doz.,	5.50
No. 14 A. Steel Oiler, 3 $\frac{3}{4}$ inch diameter, 3 inch nozzle, per doz.,	7.50
No. 14 AA. Steel Oiler, 3 $\frac{3}{4}$ inch diameter, 5 inch nozzle, per doz..	8.00
No. 16. Steel Oiler, 4 $\frac{1}{2}$ inch diameter, 9 inch nozzle, per doz..	10.50
No. 11. One Quart Railroad Oiler, 4 $\frac{1}{2}$ inch diameter, 6 inches high, 18 inch nozzle, per doz.....	18.00

Smooth Surface Cold Rolled No. 20 Gauge "Swedoh" Steel is used in the manufacture of these Oilers; they are Heavily Copper-Plated inside to prevent rusting and the oil from becoming gritty.



No. 12.



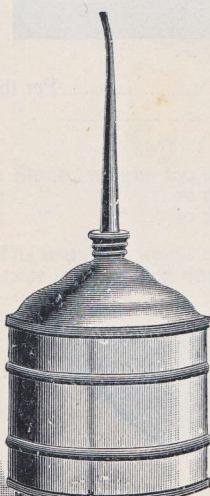
No. 13.

Mowing Machine Oilers.

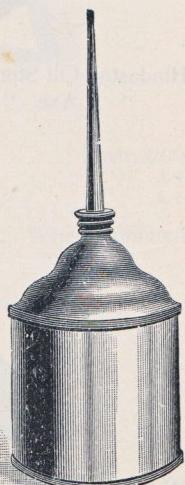
With Straight or Bent Spout.

Four-Inch.

No. 675. Round Tin, Spring Bottom, 1 pint.....	Per doz., \$1.90
No. 625. Oval Tin, Spring Bottom, 1 pint.....	Per doz.. 2.15
No. 600. Dome Tin, Spring Bottom, 1 pint	Per doz., 2.15



No. 675 Round.



No. 625 Oval.

Pieced Round Tin Oilers.

1 Pint. IC Tin	Per doz.. \$ 2.50
1 Quart, IX Tin	" 3.00
2 Quarts, IXX Tin	" 5.50

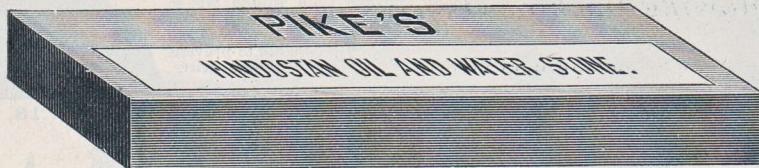
OIL STONES.

WASHITA OIL STONES.



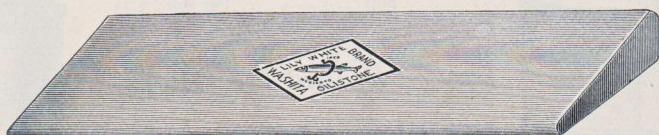
Extra Washita Oil Stone, Green Paper Wrapper, Assorted $\frac{3}{4}$ to $1\frac{1}{2}$ lbs.....	Per lb., .50
No. 1, Washita Oil Stone, Assorted $\frac{3}{4}$ to $1\frac{1}{2}$ lbs	" .40
Mounted Washita Oil Stones, 7x2 inches, extra, in Polished Cherry Case, Per doz., \$12.00	

HINDOSTAN OIL STONES.

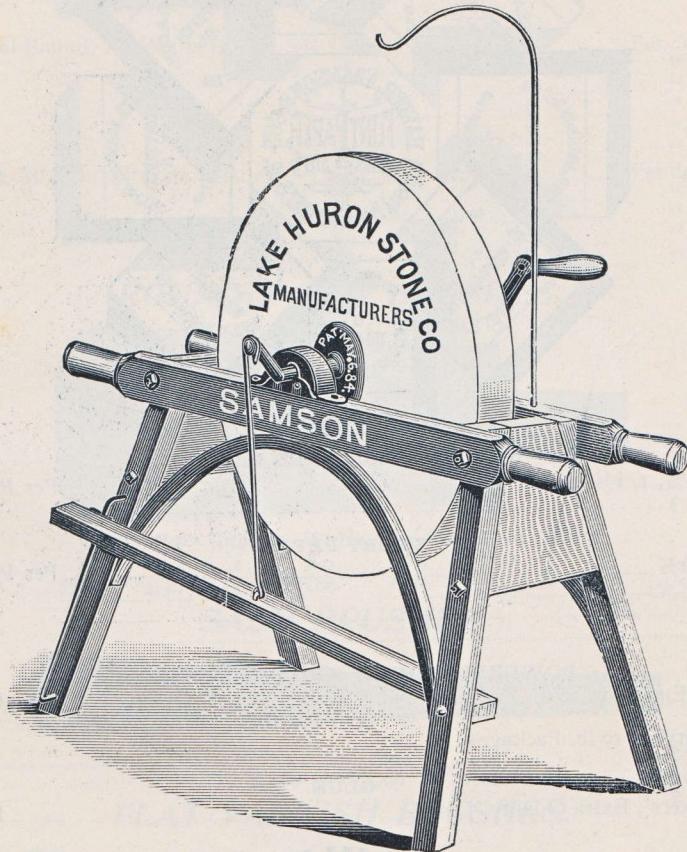


Hindostan Oil Stone (or Water) Assorted $\frac{3}{4}$ to $1\frac{1}{2}$ lbs	Per lb., .15
" Axe " " $\frac{1}{2}$ to $\frac{3}{4}$ lb.....	" .15

ROUND EDGE SLIPS.



Washita Oil Slips, Extra, Green Paper Wrapper	Per lb., .75
Hindostan Slips—Oil or Water.....	" .25

THE SAMSON MOUNTED GRINDSTONE.*Mounted with Lake Huron Stone,**Specially Selected.*

No. 1 Stone, weighs 100 to 110 lbs	Each, \$2.60
" 2 " " 70 to 80 "	" 2.35
" 3 " " 40 to 50 "	" 2.15

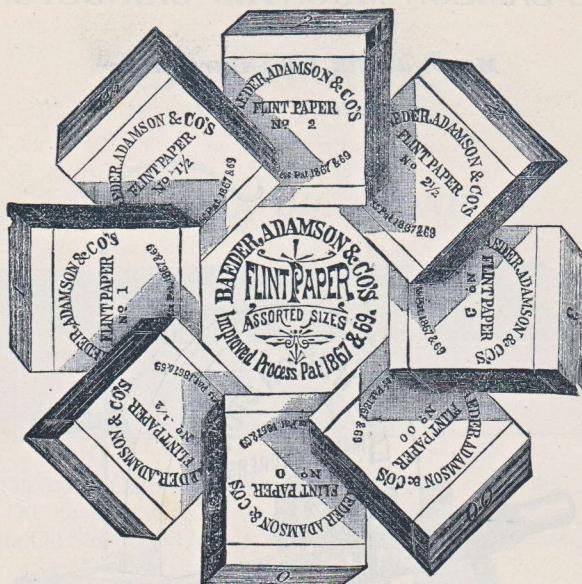
The usual thickness of Mounted Stones is from $1\frac{1}{4}$ to $2\frac{1}{4}$ inches. When a different thickness is desired, it must be specified in ordering.

HURON GRINDSTONES.*Loose.*

These Stones are of a particular desirable grit for Hand Tools.

30 to 200 lbs., assorted, any desired thickness	Per ton, \$15.00
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SAND AND EMERY PAPER, ETC.



BEST FLINT SAND PAPER.

No. 00, 0, $\frac{1}{2}$, 1, $1\frac{1}{2}$	Per Ream, \$4.75
" 2, $2\frac{1}{2}$, 3.....	5.50

EMERY PAPER.

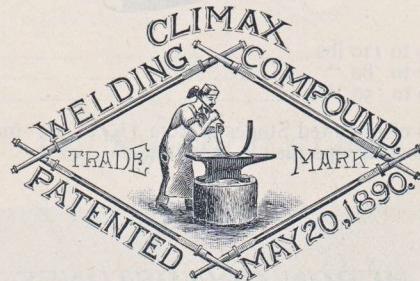
No. 00 to $1\frac{1}{2}$	Per Ream, \$6.50
" 2	" 7.50
" $2\frac{1}{2}$	" 9.50
" 3	11.50

POWDERED EMERY AND EMERY FLOUR.

Powdered Emery, in 10 lb. Packages, No. 8 to 46	Per lb., .15
" " " 54 to 150	" .12
Flour Emery, in 10 lb. Packages	" .12

GLUE.

Woodworkers', Extra Quality, Dark.....	Per lb., .25
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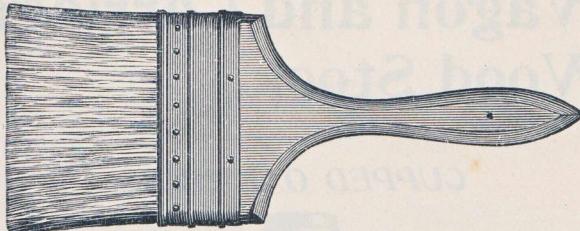


WELDING COMPOUND.

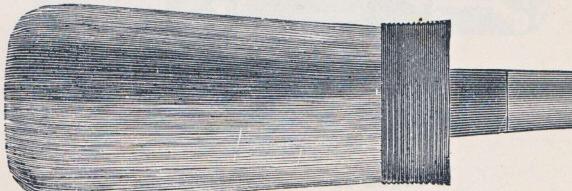
Climax, in 5 lb. Boxes	Per lb., .15
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BORAX.

California Refined, Lump.....	Per lb., .15
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FLAT PAINT OR WALL BRUSHES.

Acme, Metal Bound, All White Bristle, 2½ inch	Per doz., \$ 4.00
" " " " " 3 "	" 5.00
" " " " " 3½ "	" 6.00
" " " " " 4 "	" 7.00
" " " " " 4½ "	" 9.00
" " " " " 5 "	" 10.50
Extra Long All White Russia Bristle, 3 inch, Very Fine.....	Per doz., \$ 9.50
" " " " " 3½ "	" 11.00
" " " " " 4 "	" 14.50
" " " " " 4½ "	" 18.00
" " " " " 5 "	" 23.00

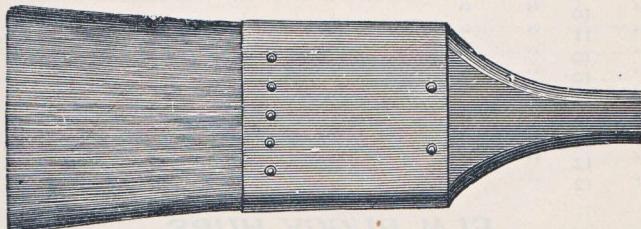
ROUND PAINT BRUSHES.

C. M.--Fair Quality, White Outside, Wire Bound.

No.....	6	4	2	1·0	2·0	3·0	4·0	5·0	6·0
Per doz.,.....	\$2.80	4.30	5.00	6.00	6.50	7.50	8.70	9.50	10.50

SASH BRUSHES.

No.....	1	2	3	4	5	6
Per doz.,.....	\$.80	1.00	1.20	1.50	1.70	1.80

FLAT VARNISH BRUSHES.

Size, inches.....	1	1½	2	2½
Per doz.,.....	\$1.20	1.80	2.40	3.00

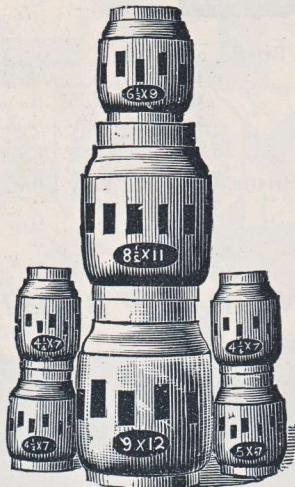
oval varnish brushes.

QUEEN--All White Bristle, Wire Bound.

No.....	3	1	1·0	2·0	3·0	4·0	5·0
Per doz.,.....	\$.450	6.50	7.50	8.50	9.00	11.00	13.00

Wagon and Carriage Wood Stock.

CUPPED OAK HUBS.



Dodged or Straight Mortise.

5 inches Diameter, 7 inches Length.....	Per Set, \$1.10
5½ " " 7 " "	" 1.10
6 " " 7 " "	" 1.10
6 " " 7½ " "	" 1.10
6 " " 8 " "	" 1.10
6½ " " 7½ " "	" 1.10
6½ " " 8 " "	" 1.20
6½ " " 8½ " "	" 1.20
7 " " 8 " "	" 1.30
7 " " 8½ " "	" 1.30
7 " " 9 " "	" 1.30
7½ " " 8 " "	" 1.40
7½ " " 8½ " "	" 1.40
7½ " " 9 " "	" 1.40
8 " " 9 " "	" 1.50
8 " " 10 " "	" 1.50
8 " " II " "	" 1.60
8¼ " " 10 " "	" 1.60
8½ " " 10 " "	" 1.60
8½ " " II " "	" 1.70
9 " " II " "	" 1.80
9 " " 12 " "	" 1.80
9½ " " 12 " "	" 1.90
10 " " 12 " "	" 2.10

ELM BUGGY HUBS.

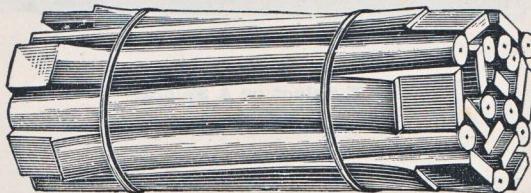
4 to 5 inches diameter.....	Per set, Painted Ends, \$1.10	Select, \$1.45
5½ to 5¾ " " "	" " "	" 1.55
6 to 6½ " " "	" " "	" 1.70

SULKY HUBS.

3 to 5½ inches diameter, 18 Mortises.....	Per set, Painted Ends, \$.85	Select, \$1.00
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SPOKES.

FOREST OAK SPOKES.



Fifty-Two Spokes to a Set.

XX.

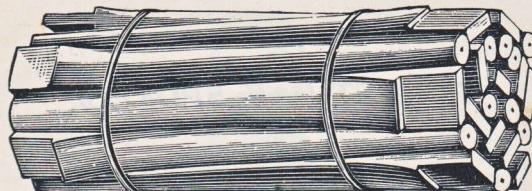
	Per set, \$1.65
1½ to 1¾ inches	" 1.65
1⅓ to 2 "	" 1.70
2⅛ "	" 1.75
2¼ to 2½ "	" 1.85
2⅝ "	" 2.00
2¾ "	" 2.10
3 "	

B Select.

2 inches	" 2.10
2⅛ "	" 2.15
2¼ "	" 2.25
2⅝ "	" 2.25
2½ "	" 2.35

XXX.

1½ to 1¾ inches	" 2.00
2 "	" 2.20
2⅛ "	" 2.40
2¼ to 2½ "	" 2.50
2⅝ "	" 2.75
2¾ "	" 3.00
3 "	" 3.25

SELECT OAK SPOKES.**XXX Select or A Select.**

1½ to 1¾ inches.....	Per set, \$2.60
1¾ to 2 ".....	" 2.65
2⅛ ".....	" 2.70
2¼ and 2⅜ ".....	" 2.90
2½ " 2⅝ ".....	" 3.10
2¾ ".....	" 3.20

XXX Extra Select or A Extra Select.

1½ to 1¾ inches.....	Per set, \$2.90
1¾ to 2 ".....	" 3.00
2⅛ ".....	" 3.10
2¼ and 2⅜ ".....	" 3.20
2½ " 2⅝ ".....	" 3.35
2¾ ".....	" 3.75

SECOND GROWTH OAK SPOKES.**B--Second Growth.**

1½ to 1¾ inches.....	Per set, \$4.10
1¾ to 2 ".....	" 4.25
2⅛ to 2¼ ".....	" 4.35
2½ ".....	" 4.35

A--Second Growth.

1½ to 1¾ inches.....	Per set, \$4.35
1¾ to 2 ".....	" 4.50
2⅛ to 2¼ ".....	" 4.85
2½ ".....	" 5.00

HICKORY SPOKES.

1 to $1\frac{1}{8}$ Inches, 60 to a Set; $1\frac{1}{2}$ to 2 Inches, 52 to a Set.

Forest Hickory.

	XX	XXX
1 $\frac{1}{8}$ to 1 $\frac{1}{2}$ inches.....	\$1.85	\$2.35
1 $\frac{1}{8}$ to 2 " 	2.00	2.00

Select Hickory.

	XXX	XXX
	Select.	Extra Select.
1 $\frac{1}{8}$ to 1 $\frac{1}{2}$ inches.....	\$ 2.75	\$3.00
1 $\frac{1}{8}$ to 2 " 	3.00	3.25

Second Growth Hickory, Mixed.

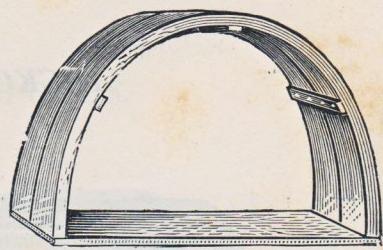
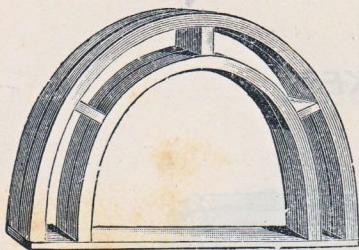
1 to 1 $\frac{1}{2}$ inches	\$2.75
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**Spokes for Sarven Patent Wheels.**

	B	C
1, 1 $\frac{1}{8}$ and 1 $\frac{1}{4}$ inches.....	Per 100, \$6.00	\$5.00
1 $\frac{1}{8}$ " 	" 7.00	6.00
1 $\frac{1}{2}$ " 	" 8.00	7.00

Agricultural Club Spokes.

	B	C
1 $\frac{1}{4}$, 1 $\frac{1}{8}$ and 1 $\frac{1}{2}$ inches.....	Per 100, \$5.00	\$4.00
1 $\frac{1}{8}$ to 1 $\frac{3}{4}$ " 	" 6.00	5.00



OAK BENT WAGON RIMS.

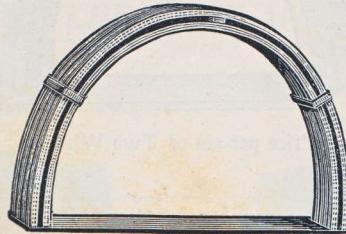
Planed on all Sides and Strongly Packed with Board and Hoop Iron.

Price per Set of Four Wheels.

		Per set, \$1.40
1½x1½ inches Deep, 3-8x4-6 Stock Diameter	"	1.50
1½x1¾ "	"	1.60
1½x2 "	"	1.60
1¾x1¾ "	"	1.70
1¾x2 "	"	1.80
1¾x2½ "	"	1.95
1¾x2¼ "	"	2.10
1¾x2¾ "	"	2.30
2 x2¾ "	"	2.30
2 x2½ "	"	2.60

OAK BENT TRUCK RIMS.

		XXX
1½ inches Wide, 1½ inches Deep, Stock Diameter 2 feet 10 inches, 3 feet.....	\$ 1.20	
2 " " 1½ " " " 2 " 10 " 3 "	1.50	
2½ " " 1½ " " " 2 " 10 " 3 "	1.75	
3 " " 1½ " " " 3 " 2 " 3 " 8 inches,	2.00	
3½ " " 1½ " " " 3 " 2 " 3 " 8 "	2.25	
4 " " 1½ " " " 3 " 2 " 3 " 8 "	2.50	
2 " " 1¾ " " " 3 " 2 " 3 " 8 "	1.90	
2¼ " " 1¾ " " " 3 " 2 " 3 " 8 "	2.00	
2½ " " 1¾ " " " 3 " 2 " 3 " 8 "	2.15	
3 " " 1¾ " " " 3 " 2 " 3 " 8 "	2.25	
3½ " " 1¾ " " " 3 " 2 " 3 " 8 "	2.75	
4 " " 1¾ " " " 3 " 2 " 3 " 8 "	3.00	
4½ " " 1¾ " " " 3 " 2 " 3 " 8 "	3.25	
5 " " 1¾ " " " 3 " 2 " 3 " 8 "	3.50	
1¾ " " 2 " " " 2 " 10 " 3 "	1.75	
2 " " 2 " " " 2 " 10 " 3 "	1.90	
2½ " " 2 " " " 2 " 10 " 3 "	2.25	
3 " " 2 " " " 3 " 6 " 4 " 2 "	2.75	
3½ " " 2 " " " 3 " 6 " 4 " 2 "	3.00	
4 " " 2 " " " 3 " 6 " 4 " 2 "	4.00	
1¾ " " 2¼ " " " 2 " 10 " 3 "	2.00	
3 " " 2¼ " " " 3 " 6 " 4 " 2 "	3.00	
3½ " " 2¼ " " " 3 " 6 " 4 " 2 "	3.25	
4 " " 2¼ " " " 3 " 6 " 4 " 2 "	3.50	
1¾ " " 2½ " " " 2 " 10 " 3 "	2.25	
3½ " " 2½ " " " 3 " 8 " 4 " 4 "	3.50	
4 " " 2½ " " " 3 " 8 " 4 " 4 "	3.75	

HICKORY BENT RIMS.

Price per Set of Four Wheels.

Planed on all Sides, and neatly Packed with Boards and Hoop Iron. Every Rim Good.

When ordering Rims, give Width First and Depth Last.

CARRIAGE OR BUGGY.

XXX	
Size, 1 inch, Stock Diameter, 3 feet 10 inches, 4 feet 2 inches.....	Per set, \$.90
" 1 1/8 " " " 3 " 10 " 4 " 2 "	" 1.00
" 1 1/4 " " " 3 " 10 " 4 " 2 "	" 1.10
" 1 3/8 " " " 3 " 8 " 4 " 2 "	" 1.20
" 1 1/2 " " " 3 " 8 " 4 " 2 "	" 1.35
" 1 5/8 " " " 3 " 8 " 4 " 2 "	" 1.50
" 1 3/4 " " " 3 " 8 " 4 " 2 "	" 1.60

HICKORY BENT SULKY RIMS.

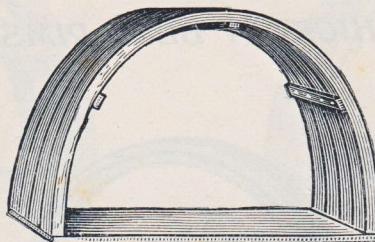
Price per set of Two Wheels.

XXX	
Size, 1 inch, Stock Diameter, 4 feet 10 inches.....	Per set, \$.90
" 1 1/8 " " " 4 " 10 "	" 1.00
" 1 1/4 " " " 4 " 8 "	" 1.25

CULTIVATOR RIMS.

Price per Set of Two Wheeis.

1 1/4 x 1 1/4 Diameter 2 feet 10 inches.....	Per set, \$.55
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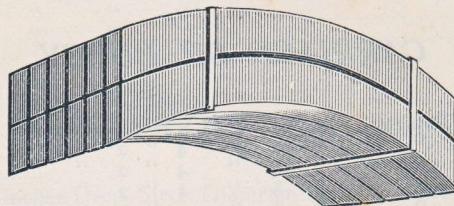
HICKORY BENT RAKE AND SEEDER RIMS.

Price per set of Two Wheels.

		XXX
	Per set, \$.75	
1 1/2 X 1 1/4	Diameter 4 feet.....	" .90
1 5/8 X 1 1/4	" " "	" 1.00
1 3/4 X 1 1/4	" " "	" 1.10
2 " X 1 1/4	" " "	" 1.20
2 1/4 X 1 1/4	" " "	" 1.30
2 1/2 X 1 1/4	" " "	" .85
1 1/4 X 1 3/8	" " "	" .75
2 " X 1 1/2	4 feet, 6 inches.....	

SAWED FELLOES.

Sawed Wagon and Truck Felloes.



Twenty-Six Pieces to a Set.

Height, 3 feet 8 inches x 4 feet 6 inches.

		Per set, \$1.20
	" 1.25	
1 3/4 inches Wide, 2 1/4 inches Deep.....	" 1.30	
1 3/4 " " 2 3/8 " "	" 1.35	
1 3/4 " " 2 1/2 " "	" 1.40	
2 " " 2 1/4 " "	" 1.50	
2 " " 2 3/4 " "	" 1.60	
2 " " 3 " "	" 3.60	
3 1/2 " " 2 1/4 " " 3 feet 2 inches, 3 feet 8 inches Truck.....		

FINISHED SAWED FELLOES.

FINISHED FELLOE 3 BY 8 CIRCLE



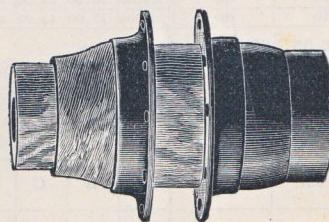
FINISHED FELLOE 4 FT 8 CIRCLE

		Per set, \$1.60
	" 1.75	
1 3/4 inches Wide, 2 1/4 inches Deep.....	" 1.90	
1 3/4 " " 2 3/8 " "	" 1.90	
1 3/4 " " 2 1/2 " "		

SARVEN PATENT WHEELS.

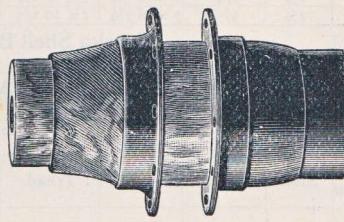
STYLES OF FLANGES.

Order by Number.



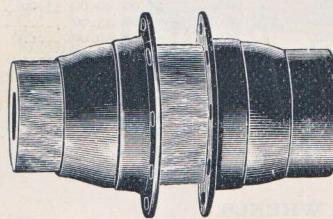
No. F 3.

Back flange extending out even with back of Hub.



No. F 4.

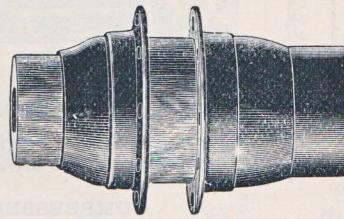
Back flange extending over back end of Hub and forming Sand Band.



No. F 5.

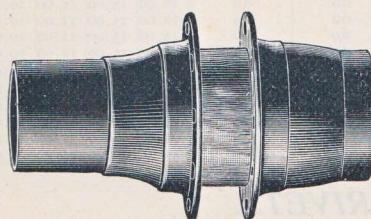
Front flange extending to Gain for Point Band. Back flange extending out even with back end of Hub.

We carry this Pattern in Stock.



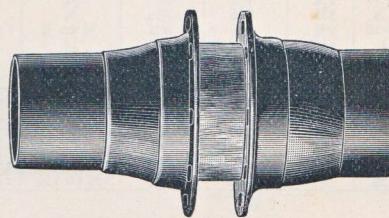
No. F 6.

Front flange extending to Gain for Point Band, and back flange extending over back, forming Sand Band.



No. F 7.

Solid front flange, forming Point Band. Back flange extending out even with back end of Hub.



No. F 8.

Solid front flange, forming Point Band. Back flange extending over back end of Hub to form Sand Band.

We carry this Pattern in Stock.

Styles of Flanges on Wheels in Stock, F 5 and F 8 only, but any pattern desired promptly furnished direct.

SARVEN PATENT WHEELS.

LIGHT WHEELS.

SPOKE.		HUB.		RIM.		MAXIMUM HEIGHT.		PRICE PER SET.				
No.	Flange	Size.	Diam.	Length.	Tread.	Depth.	Front.	Hind.	A	B	C	D
01	I	15-16	2 15-16	6 1/2	7/8 to 1	1 to 1 1/4	4 ft.	4 ft. 4 in.	\$17.00	\$14.00	\$11.00	\$ 9.00
0	I	1	3	6 1/2	1 1/8 to 1 1/4	1 1/8 to 1 1/4	do	do	17.00	14.00	11.00	9.00
I	I	1-16	3 1-16	6 1/2	I	1 1/8 to 1 1/4	do	do	17.00	14.00	11.00	9.00
3	I	1 1/8	3 3-16	6 1/2	1 to 1 1/8	1 1/4 to 1 1/8	do	do	17.00	14.00	11.00	9.00
7	I	3-19	3 7-16	6 1/2 and 7	1 to 1 1/8	1 1/4 to 1 1/8	do	do	19.00	16.00	12.00	10.00
9	I	1 1/4	3 5/8	7 and 7 1/2	1 1/8 to 1 1/4	1 1/8 to 1 1/4	do	do	19.00	16.00	12.00	10.00
13	I	1 1/8	3 7/8	7 and 7 1/2	1 1/4 to 1 1/8	1 1/8 to 1 1/8	do	do	21.00	18.00	14.00	11.00

Eureka Shell Band same price as Sarven.

HEAVY WHEELS.

SPOKE.		HUB.		RIM.		MAXIMUM HEIGHT.		PRICE PER SET.				
No.	Flange	Size.	Diam.	Length.	Tread.	Depth.	Front.	Hind.	A	B	C	D
17	I	7-16	4 1/8	7 1/2	1 7-16	1 5/8	4 ft.	4 ft. 8 in.	\$23.00	\$20.00	\$17.00	\$14.00
21	I	1 1/2	4 5-16	7 1/2 and 8	1 1/2	1 3/4	do	do	25.00	22.00	19.00	16.00
25	I	9-16	4 5/8	8 and 8 1/2	1 9-16	1 3/4	do	do	27.00	24.00	21.00	18.00
33	I	1 1/8	5	8 1/2 and 9	1 1/8	1 1/8	do	do	29.00	26.00	23.00	20.00
39	I	1 3/4	5 5/8	8 1/2 and 9	1 3/4	2 1/4	do	do	32.00	29.00	26.00	20.00
45	I	1 7/8	9 to 11	1 7/8	2 1/4	do	do	do	35.00	32.00	29.00	20.00
51	2 1/8	6 5/8	10 to 11	2 1/8	2 1/2	do	do	do	40.00	35.00	32.00	20.00
57	2 1/4	6 5/8	10 to 11	2 1/4	2 3/4	do	do	do	45.00	40.00	35.00	20.00
63	2 1/4	7	11 to 12	2 3/8	3	do	do	do	50.00	45.00	40.00	20.00
71	2 1/2	7 1/4	11 to 13	2 1/2	3	do	do	do	55.00	50.00	45.00	20.00
73	2 1/2	7 1/4	11 to 13	2 3/8	3 1/4	do	do	do	60.00	55.00	50.00	20.00
79	2 3/4	7 5/8	12 to 14	2 3/4	3 1/4	do	do	do	65.00	60.00	55.00	20.00
85	2 7/8	8 1/4	12 to 14	2 7/8	3 1/2	do	do	do	70.00	65.00	60.00	20.00
95	3	9	12 to 16	3	3 1/2	do	do	do	75.00	70.00	65.00	20.00
105	3 1/4	9	12 to 16	3 1/4	3 3/4	do	do	do	80.00	75.00	70.00	20.00

Sizes noted are the maximum heights allowed in sets.

In pairs the maximum heights are 4 ft. 4 in.

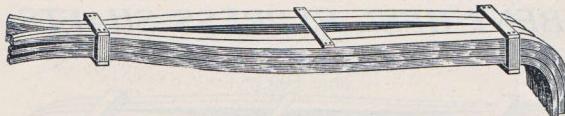
COMPRESSED BAND HUB WHEELS.

SPOKE.		HUB.		RIM.		MAXIMUM HEIGHT.		PRICE PER SET.				
Size.	Flange	Diam.	Length.	Point Band.	Tread.	Depth.	Front.	Hind.	A	B	C	D
13-16	3 1/8	6 1/2	2	2	3/4	I	4 ft.	4 ft. 4 in.	\$18.00	\$15.00	\$12.00	\$10.00
	3 1/4	6 1/2	2 1/8	2 1/8	3/4	I	do	do	18.00	15.00	12.00	10.00
15-16	3 3/8	6 1/2	2 1/4	2 1/4	3/4 to 7/8	I to 1 1/8	do	do	18.00	15.00	12.00	10.00
I	3 1/2	6 1/2	2 1/4	2 1/8	7/8	1 1/8	do	do	18.00	15.00	12.00	10.00
I-1-16	3 5/8	6 1/2	2 1/8	2 1/8	7/8 to I	1 1/8	do	do	18.00	15.00	12.00	10.00
I	3 1/8	6 1/2	2 1/2	2 1/2	I	1 1/4	do	do	18.00	15.00	12.00	10.00
I-3-16	4	6 1/2 or 7	2 3/4	2 3/4	I to 1 1/8	1 1/4 to 1 5-16	do	do	20.00	17.00	13.00	11.00
I	4 1/4	6 1/2 or 7	2 3/4	2 3/4	1 1/8	1 1/4 to 1 1/8	do	do	20.00	17.00	13.00	11.00
I	4 1/2	7	3 1/8	3	1 1/4	1 1/4 to 1 1/2	do	do	24.00	19.00	15.00	12.00
I-7-16	5	7	3 1/2	1 1/4	1 1/4	1 1/2 to 1 5/8	do	do	25.00	22.00	19.00	16.00
I	5 1/2	7	3 3/4	1 1/4 to 1 3/4	1 1/2 to 1 5/8	do	do	do	27.00	24.00	21.00	18.00
I	6	8	4 1/4	1 1/8 to 1 1/2	1 1/8 to 1 3/4	do	do	do	31.00	28.00	25.00	22.00

SCREWS AND RIVETS.

Inserted in Rims at following prices, with same Discount as on Wheels.

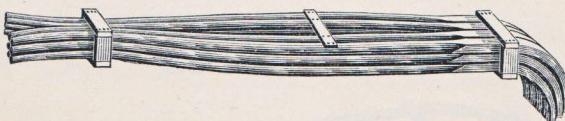
All Wheels 1 1/8 tread and under	Per Set,	With Screws, .60.	With Rivets, .75.
" " 1 1/4 "	"	"	.75.
" " 1 3/8 "	"	"	1.00.
" " 1 1/2 and 1 5/8 tread	"	"	1.25.
" " 1 3/4, 1 1/8 and 2 "	"	"	1.50.
" " 2 1/8 and 2 1/4 "	"	"	2.00.
" " 2 1/2 tread	"	"	2.50.

BENT HEEL BUGGY SHAFTS.

8 feet 3 inches long.

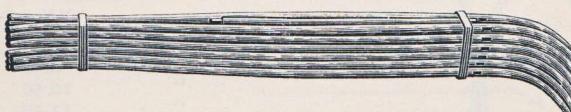
ROUGH.

Size.		XX.	XXX.	Black Hickory.
$1\frac{1}{2} \times 2$	Per dozen pairs,	\$5.00	\$6.50	\$8.50
$1\frac{1}{2} \times 2\frac{1}{4}$	"	6.00	7.50	9.50
$1\frac{5}{8} \times 2\frac{1}{4}$	"	7.50	9.50	10.50

**HALF FINISHED.**

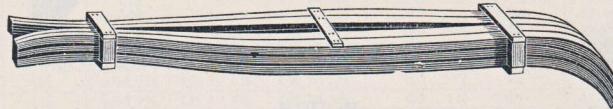
Finished to Cross Bar. Without Mortise or Bar.

Size.		XX.	XXX.	Black Hickory.
$1\frac{1}{2} \times 2$	Per dozen pairs,	\$6.50	\$8.75	\$12.00
$1\frac{1}{2} \times 2\frac{1}{4}$	"	8.00	10.50	13.50
$1\frac{5}{8} \times 2\frac{1}{4}$	"	9.50	12.00	15.00

**FINISHED.**

Ready to put together. Finished Cross Bars included.

Size.		XX.	XXX.	Black Hickory.
$1\frac{3}{8} \times 2$	Per dozen pairs,	\$9.00	\$10.00	
$1\frac{1}{2} \times 2$	"	9.50	10.50	\$14.45
$1\frac{1}{2} \times 2\frac{1}{4}$	"	10.00	11.00	16.00
$1\frac{5}{8} \times 2\frac{1}{4}$	"	11.00	12.00	17.50

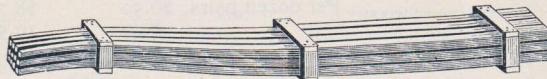
BENT HEEL EXPRESS SHAFTS.

8 feet 8 inches long.

ROUGH.

Planed on all sides.

Size.		XX.	XXX.
1 $\frac{5}{8}$ x 2 $\frac{1}{4}$	Per dozen pairs,	\$ 9.00	\$11.00
1 $\frac{3}{4}$ x 2 $\frac{1}{4}$	"	9.75	12.00
2 x 2 $\frac{1}{2}$	"	12.00	14.25

STRAIGHT HEEL BUGGY AND EXPRESS SHAFTS.**ROUGH.**

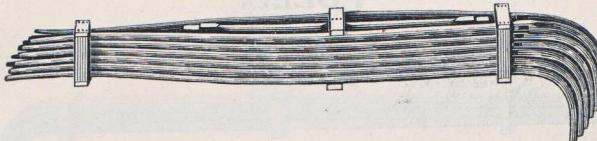
Planed on all sides. Neatly put up in solid bundles.

Size.		XX.	XXX.
1 $\frac{1}{2}$ x 2 $\frac{1}{4}$ Buggy	Per dozen pairs,	\$ 5.50	\$ 7.50
1 $\frac{3}{4}$ x 2 $\frac{1}{4}$ inches, Express	"	8.50	10.50
2 x 2 $\frac{1}{2}$ "	"	10.50	12.75
2 x 3 " "	"	13.50	15.75

FINISHED.

Ready to put together. Finished Bars included.

Size.	XX.	XXX.
2 x 2 $\frac{1}{2}$ inches	Per dozen pairs, \$14.50	\$16.90

CART SHAFTS.

9 feet long.

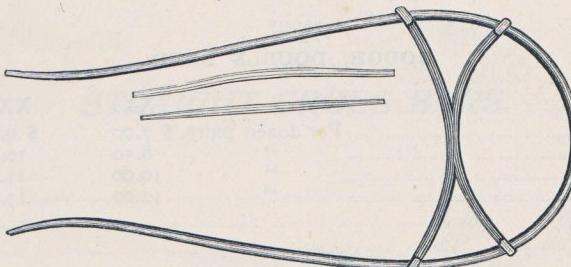
ROUGH.

Size.	XXX.
1 $\frac{5}{8}$ x 2	Per dozen pairs, \$16.00
1 $\frac{1}{2}$ x 2 $\frac{1}{4}$	" 12.00
1 $\frac{5}{8}$ x 2 $\frac{1}{4}$	" 13.00
1 $\frac{3}{4}$ x 2 $\frac{1}{4}$	" 14.00

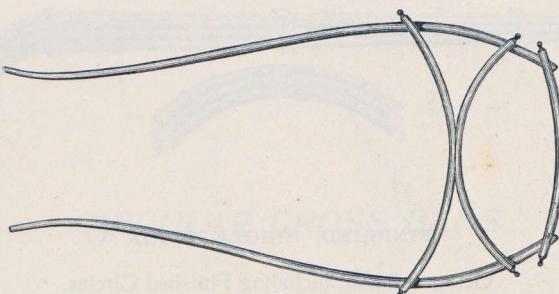
FINISHED.

Without Bars.

Size.	XXX.
1 $\frac{5}{8}$ x 2 $\frac{1}{4}$	Per dozen pairs, \$14.00
1 $\frac{3}{4}$ x 2 $\frac{1}{4}$	" 15.00

SULKY SHAFTS.

Circle Back.

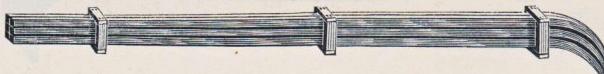


Half Circle.

ROUGH.

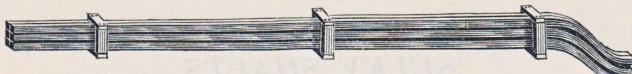
XXX.
\$18.00
15.00

Circle Back—1 $\frac{3}{4}$ x 2
Half Circle—1 $\frac{3}{4}$ x 2

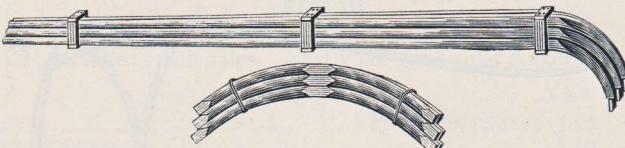
POLES.**ROUGH, SINGLE BEND.**

Planed on all sides.

Size.		XX.	XXX.	Black Hickory.
1 $\frac{3}{4}$ x 2 $\frac{1}{4}$	Per dozen pairs, \$	5.00	6.00	\$ 8.00
2 x 2 $\frac{1}{2}$	"	5.50	8.00	9.00
2 x 2 $\frac{3}{4}$	"	6.00	9.00	10.00
2 x 3	"	6.50	10.00	11.00
2 $\frac{1}{4}$ x 3	"	9.00	12.00	13.00

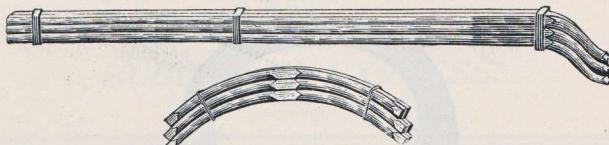
**ROUGH, DOUBLE BEND**

Size.		XX.	XXX.	Black Hickory.
2 x 2 $\frac{1}{2}$	Per dozen pairs, \$	7.00	9.00	\$ 10.00
2 x 2 $\frac{3}{4}$	"	8.50	10.00	11.00
2 x 3	"	10.00	11.00	13.00
2 $\frac{1}{4}$ x 3	"	12.00	13.00	14.00

**FINISHED, SINGLE BEND.**

Octagon finish, including Finished Circles.

Size.		XX.	XXX.	Black Hickory.
2 x 2 $\frac{1}{2}$	Per dozen pairs, \$	8.00	9.00	\$ 10.00
2 x 2 $\frac{3}{4}$	"	9.00	10.50	12.00
2 x 3	"	10.00	12.00	14.00
2 $\frac{1}{4}$ x 3	"	12.00	14.00	16.00

POLES.

FINISHED, DOUBLE BEND.

Including Finished Circles.

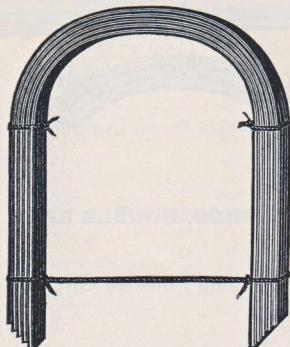
Size.	XX.	Black Hickory.
2x2½	Per dozen pairs, \$10.00	\$16.00
2x2¾	" 12.00	18.00
2x3	" 14.00	20.00

STRAIGHT CROSS BARS.

Size.	XXX.
1¼x2	Per dozen, \$1.20
1⅓x2	" 1.25
1½x2	" 1.30
1⅔x2¼	" 1.35
1¾x2¼	" 1.65
1¾x2½	" 1.75
2x2½	" 2.00

CIRCULAR CROSS BARS.

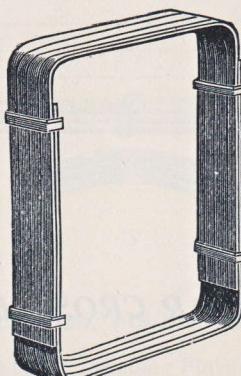
	XXX.
1¼x1¼	Per dozen, \$1.25
1⅓x1⅓	" 1.30
1½x1½	" 1.35
1⅔x1⅔	" 1.40
1¾x1¾	" 1.50

WHITE ASH WAGON BOWS.

ROUND TOP.

Five Pieces to a Set. Two Sets to a Bundle.

Size— $\frac{5}{8} \times 2$ inches, Round Top	Per set, \$.70
" — $\frac{5}{8} \times 2$ " Square "	" .75

BUGGY OR CARRIAGE BOWS.

LONG BOWS.

White Ash, Second Growth. Four pieces to a Set.

Long, $\frac{3}{4} \times 1\frac{1}{4}$, 2 feet 6 inches to 4 feet Wide	Per set, \$.80
Short, $\frac{3}{4} \times 1\frac{1}{4}$, " " " "	" .40

SINGLETREES.

BUGGY AND EXPRESS.



Regular End.



Sword End.

Size.	Forest.	Second Growth.
1 $\frac{3}{8}$ to 1 $\frac{5}{8}$ x 40 inches	Per dozen, \$1.50	\$2.50
1 $\frac{3}{4}$ x 40 inches	" 1.60	2.60
1 $\frac{7}{8}$ x 40 "	" 1.65	2.65
2 x 40 "	" 1.75	2.75
2 $\frac{1}{8}$ x 40 "	" 1.85	2.85
2 $\frac{1}{4}$ x 40 "	" 1.90	2.90
2 $\frac{3}{8}$ x 40 "	" 2.00	
2 $\frac{1}{2}$ x 40 "	" 2.10	
1 $\frac{3}{4}$ x 42 "	" 1.90	
1 $\frac{7}{8}$ x 42 "	" 2.00	
2 x 42 "	" 2.10	

OVAL WAGON.



Size.	Forest.	Second Growth.
2 $\frac{1}{4}$ x 36 inches	\$.90	
2 $\frac{3}{8}$ x 36 "	.95	\$2.25
2 $\frac{1}{2}$ x 36 "	1.00	2.50
2 $\frac{5}{8}$ x 36 "	1.10	2.75
2 $\frac{3}{4}$ x 36 "	1.20	3.00
2 $\frac{3}{4}$ x 38 "	1.25	
2 $\frac{3}{4}$ x 42 "	1.50	
3 x 40 "	2.00	

SINGLETREES.

ROUND WAGON.



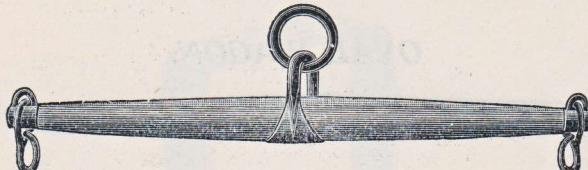
Size.		Forest.
	Per dozen, \$	
2 $\frac{3}{8}$ x36 inches	1.10	
2 $\frac{1}{2}$ x36 "	"	1.20
2 $\frac{5}{8}$ x36 "	"	1.25
2 $\frac{3}{4}$ x36 "	"	1.35
2 $\frac{5}{8}$ x46 "	"	2.25
2 $\frac{3}{4}$ x46 "	"	2.50

PLOW.



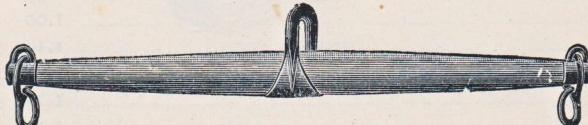
2 $\frac{1}{4}$ x30 inches.	Per dozen, \$.75
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IRONED WAGON.



2 $\frac{1}{2}$ x36 inches, with Ringed Clip	Per dozen, \$3.00
2 $\frac{5}{8}$ x38 " " Twisted Clip, Extra Heavy.....	" 3.50

IRONED PLOW.



2 $\frac{1}{4}$ x30 inches, with Twisted or Ring Clip	Per dozen, \$2.50
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DOUBLETTREES.

BUGGY AND EXPRESS.



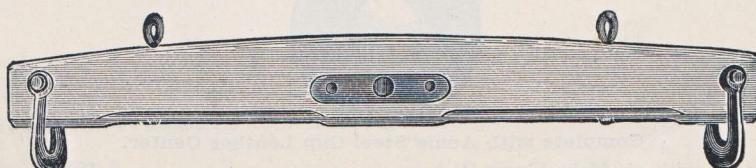
Size.	Forest.	Black Hickory.
1 $\frac{3}{8}$ x2 $\frac{1}{8}$ x48.....	Per dozen, \$2.15	\$2.75
1 $\frac{1}{8}$ x2 $\frac{1}{4}$ x48.....	" 2.25	3.00
1 $\frac{1}{2}$ x2 $\frac{1}{4}$ x48.....	" 2.30	3.25
1 $\frac{3}{4}$ x2 $\frac{1}{4}$ x48.....	" 2.35	
1 $\frac{3}{4}$ x2 $\frac{1}{2}$ x48.....	" 2.40	
1 $\frac{3}{4}$ x3 x48.....	" 2.50	

WAGON.



Size.	Forest.	Second Growth.
2 x4 x48 inches.....	Per dozen, \$2.25	\$2.75
2 x4 $\frac{1}{2}$ x48 "	" 2.50	
2 x4 $\frac{1}{2}$ x48 "	" 2.75	
2 $\frac{1}{2}$ x5 x48 "	" 3.50	

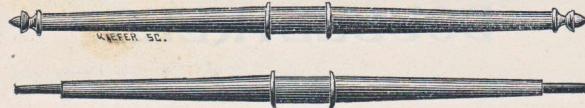
IRONED WAGON.



2x4x48 inches, with Iron Center Plates and Clevises..... Per dozen, \$6.00

NECKYOKES.

BUGGY AND EXPRESS.



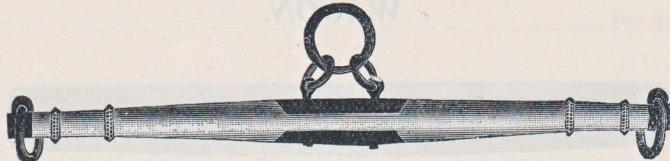
Size.		Forest.	Second Growth.
1½x42 inches	.....	Per dozen, \$2.00	\$3.00
1¾x42 "	.....	" 2.25	3.25
1⅓x42 "	.....	" 2.35	3.50
2 x42 "	.....	" 2.50	3.75

WAGON.



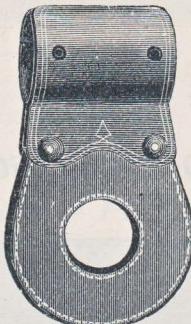
Size.		Forest.	Second Growth.
2¼x38 inches	.....	Per dozen, \$1.25	\$2.25
2¾x38 "	.....	" 1.35	2.50
2½x38 "	.....	" 1.50	2.75
2¾x38 "	.....	" 1.75	
2¾x46 "	.....	" 2.25	
2¾x42 "	.....	" 2.00	
2¾x46 "	.....	" 2.50	
3 x46 "	.....	" 3.75	

IRONED WAGON.



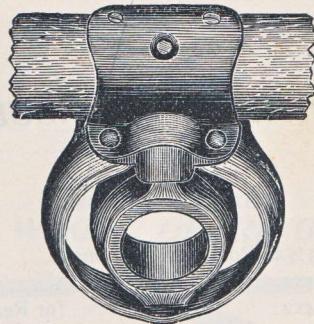
2½x38 inches with Wrought Irons, except Ferrules	.....	Per dozen, \$4.50
2½x40 " " Extra Large Center Ring	.....	" 5.00

FINISHED BUGGY NECKYOKES.



Complete with Acme Steel Clip Leather Center.

No. 3 Acme, with 1⅓ Hole, Forest Hickory	.....	Per dozen, \$4.50
No. 4 " " 1⅓ "	.....	" 4.75

SHUMAN'S SWIVEL NECKYOKES.

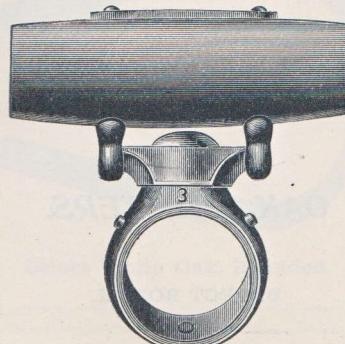
Shuman's Neckyokes Complete.

No. 3, Second Growth, Medium Size, 1½ inch Hole	Per dozen, \$11.00
No. 4 " " Large " 1⅝ " "	12.00

JOHNSON'S SWIVEL NECKYOKES.

The Ring is made of Cast Steel, lined with Leather, riveted in with three Rivets. All other parts are Steel forgings. These are nicely fitted together, making a neat and very much more durable Center than Leather.

No. 3, Johnson's, 1⅔ inch Woods, 1½ inch Hole	Per dozen, \$ 9.00
No. 4 " 2 " 1⅝ " "	10.00

NECKYOKE CENTERS ONLY.

Johnson's.

No. 3, Johnson's Patent, 1½ inch Hole, Japanned	Per dozen, \$6.00
" 4 " " 1⅝ " "	" 6.00
" 3, Shuman's " 1½ " "	" 7.00
" 4 " " 1⅝ " "	" 7.00

ROUGH ASH OR OAK WAGON POLES.

ASH WAGON TONGUES.**SELECT ROUGH.**

$3\frac{1}{2} \times 3\frac{1}{2}$	Butt and $3\frac{1}{2} \times 2$ Point, 12 feet long	Each, \$.80
4x4	" " 4x2 " 12 "	" .85
4x4	" " 4x2 " 14 " for Reapers..	" 1.00
Seconds and Cull Tongues		.60 to .70

FINISHED TONGUES.

Surfaced and Shaped.....	Each, \$1.10
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FINISHED ASH POLE SQUARE BUTT.

HICKORY AXLES.**SELECT ROUGH.**

3 x 4 inches, 6 feet long	Per pair, \$1.10
$3\frac{1}{2} \times 4\frac{1}{2}$ " 6 "	" 1.30
4 x 5 " 6 "	" 1.50
4 x 6 " 6 "	" 1.60
$4\frac{1}{2} \times 6$ " 6 "	" 1.80
5 x 6 " 6 "	" 2.00

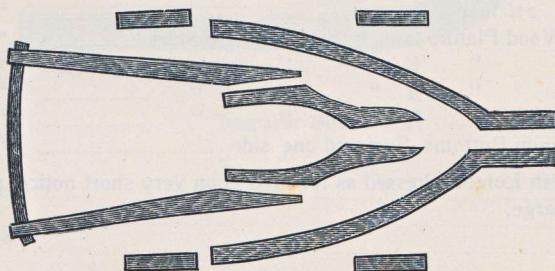
OAK BOLSTERS.**SELECT ROUGH.**

3 x 4 inches, 4 feet long	Per pair, \$.40
$3\frac{1}{4} \times 4\frac{1}{4}$ " 4 "	" .45
$3\frac{1}{2} \times 4\frac{1}{2}$ " 4 "	" .50
$3\frac{1}{2} \times 5$ " 4 "	" .60
4 x 5 " 4 "	" .70
4 x 6 " 4 "	" .80

OAK REACHES.

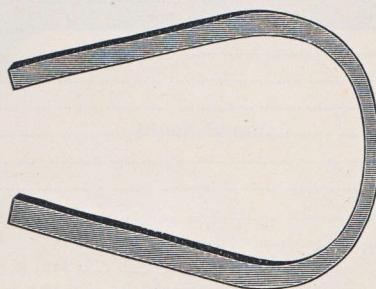
Select Rough, 2x4 Inches.

8 feet long	Each, \$.30
10 " "	" .38
12 " "	" .45
14 " "	" .53
16 " "	.60

WAGON GEARING.

Sawed Oak, Rough.

Sawed Front Hounds, 2 pieces	Per set, \$.30
Sawed Hind Hounds, 2 pieces	" .35
Sawed Tongue Hounds 2 pieces	" .35
Sawed Sway Bar, 1 piece	Each, .25
Sawed Wagon Stakes, 4 pieces	Per set, .25
Sawed Wagon Gearing, complete, 11 pieces	" 1.25

BENT HOUNDS.

Select White Oak, Rounded.

Front, Narrow Track	Each, \$.60
Hind " "	" .70

WAGON BOX CLEATS.

3½x1½ inches, 4 feet 2 inches Long	Per dozen, \$1.00
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HARDWOOD LUMBER.

White Oak Plank, 1 to 2 inches	Per 1000 feet, \$50.00
" " " 2½ to 4 "	" " 55.00
Hickory " 1 to 2 "	" " 65.00
" " 2½ to 4 "	" " 70.00
Ash " 1 to 2 "	" " 50.00
" " 2½ to 4 "	" " 55.00
Poplar or White Wood Plank, ½ inch, Surfaced two sides	" " 45.00
" " " 5/8 "	" " 47.00
" " " ¾ "	" " 50.00
" " " 7/8 "	" " 50.00
Hard Pine for Wagon Bottoms, Surfaced one side	" " 35.00

We can furnish Lumber dressed as required upon very short notice, and at a reasonable additional charge.

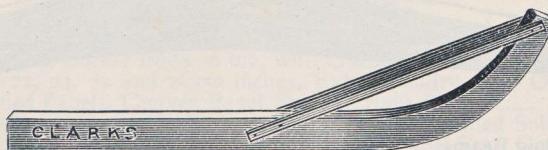
CUTTER STUFF.

A complete set of Cutter Stuff includes Runners, Raves and Fenders.

One Seat, Square Body, Stuff Complete	Per set, \$1.00
Two " " " " .	" 1.10
One " Swell Body " "	" 1.75
Two " " " " .	" 2.00
1¼ inch Cutter Runners	Per pair, .50
1¾ " " " "	" .60
1½ " " " "	" .60
Cutter Raves	" .40
Cutter Knees and Beams	Per set, .40
Fenders	Per pair, .40

GROCER BOB STUFF.

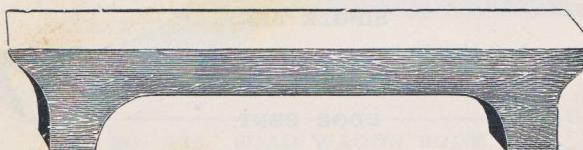
1½ inch High Bend, including Runners, Raves and Fenders	Per set, \$1.75
1¾ " " " " "	" 1.90
1½ " " Runners only	" 1.20
1¾ " " " " "	" 1.30

SOLID BENT OAK BOB RUNNERS.

Regular Bend.

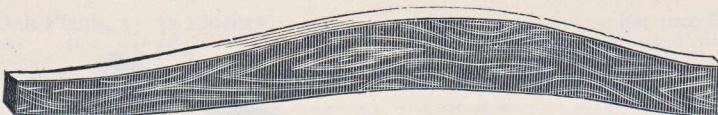
Size.

2x3 inches Deep	Per set, \$1.35
2x3½ " "	" 1.60
2x4 " "	" 1.70

SAWED BOB GEARING ROUGH.

Block Beam.

Block Beam Gearing, 16 pieces	Per set, \$3.00
Knee Bob " 30 "	" 2.90
Bloch Beams, 3 x 9 in. x 4 feet	Each, .60
Knee Beams, 2 x 3½ in. x 4 feet	Per set, .80
Bob Knees, 2 x 3½ x 18 inches	" .60
Bob Raves, 1¼ x 7 in. x 5 feet	" .75
" 1¼ x 8 in. x 5 feet	" .85
Bob Rollers, 3 x 3½ in. x 3 feet	" .25
Saddle Pieces, 2½ x 3 x 30 inches	" .20
Bob Bolsters, 3 x 4 in. x 4 feet	Each, .50
" 3½ x 4½ x 4 feet	" .55
Sand Boards, 2 x 12 x 28 inches	Per set, .30
Bob Reaches, 2 x 4 x 48 inches	Each, .

PLOW BEAMS.

12 inch Stirring Plow Beams.....	Each, \$.60
14 " " " "	" .75
16 " " " "	" .85
14 " Breaking " " "	" .85
16 " " " "	" 1.00

PLOW HANDLES.**STRAIGHT.**

Straight.....	Per single dozen, \$1.50
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SINGLE BENT.

Single Bent, Right or Left Hand.....	Per single dozen, \$1.75
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EDGE BENT.

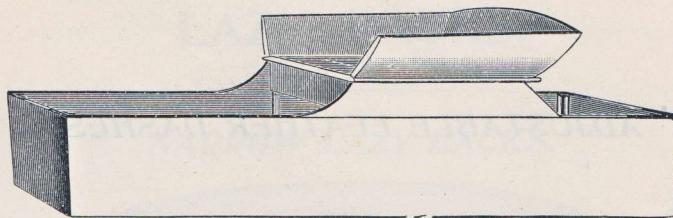
Edge Bent, High or Low.....	Per single dozen, \$2.00
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DOUBLE BENT.

Double Bent, for Mould Board, Right or Left Hand	Per single dozen, \$2.00
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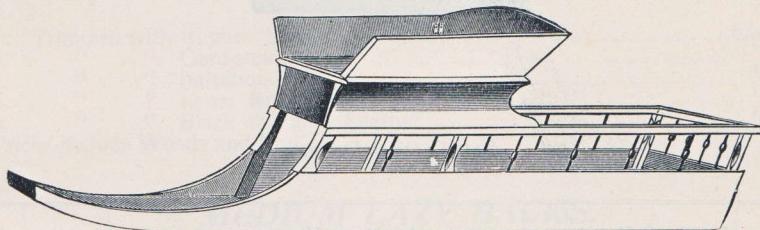
HARROW STUFF.**WHITE OAK, ROUGH.**

2 $\frac{1}{4}$ x2 $\frac{1}{4}$ inches, 5 feet long.....	Each, \$.12
2 $\frac{1}{2}$ x2 $\frac{1}{2}$ " 5 "	" .15

BUGGY BODIES.

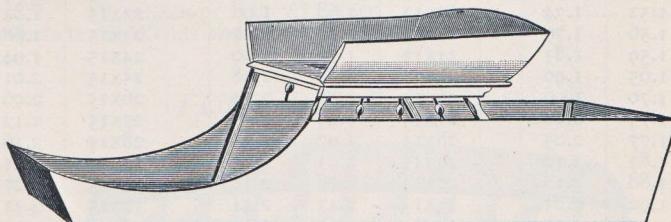
NO. 265. PIANO BODY.

No. 265. Piano—22, 23, 24, 25 and 26x50 inches, Swelled Side Panels, Convex Panel Seat, Flat Corner Irons on top, with Curtain Rack	Price, \$ 4.25
No. 266. Piano—22, 24, 25 and 26x50 inches, Extra Quality, with Oval Corner Irons, Swelled Panels, Convex Panel Seat, Curtain Rack	Price, 5.25
No. 267. Piano—22, 24, 25 and 26x50 inches, with our Patented Solid Concave Riser, Flat Corner Irons, Swelled Panels, Convex Panel Seat, Curtain Rack. Price	4.75



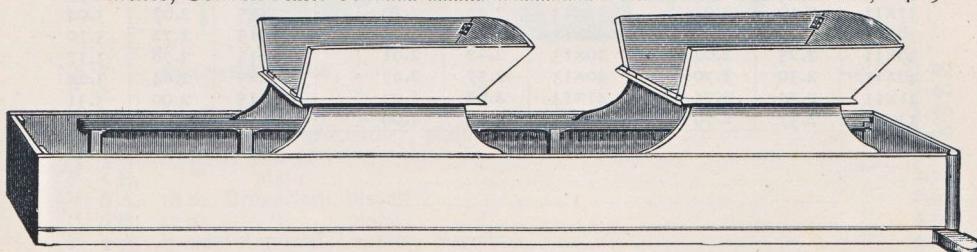
NO. 460. ROAD WAGON BODY.

No. 460. Road Wagon Body—25x54 inches, Convex Panel Seat.	Price, \$ 4.25
No. 461. Road Wagon Body—Same as above, but bent up extra high in front, with Spring Bar framed in for Elliptic Spring Work	Price, 4.50



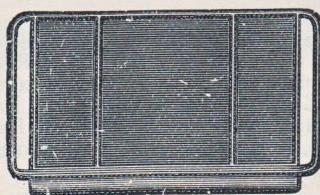
NO. 462. ROAD WAGON BODY.

No. 462. Road Wagon Body—25x48 inches, Convex Panel Body	Price, \$ 4.00
No. 463. Road Wagon Body—Same as No. 462 with Solid Seat Riser. 25x48 inches, Convex Panel Seat.....	Price, 4.25



NO. 256. SPRING WAGON BODY.

No. 256. 2 ft. 8 in., 2 ft. 10 in. and 3 ft. x 6, 6½, 7, 7½ and 8 ft. long	Price, \$ 8.25
Extra Seat, with Risers, \$1.25.	
No. 480. Spring Wagon Body—With Patented Malleable Iron Round Corners, 2 ft. 8 in., 2 ft. 10 in. and 3 ft. x 6, 6½, 7, 7½ and 8 ft. long. Top box iron all around, Drop End-Gate with End-Gate Fastenings	Price, 10.00

ADJUSTABLE LEATHER DASHES.**PRICE LIST.****Soft Leather Dashes.**

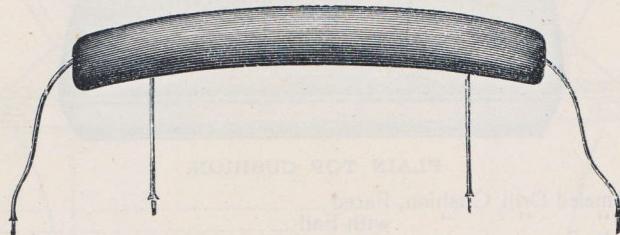
Size.	Leather Edge.	Metal Edge.	Size.	Leather Edge.	Metal Edge.	Size.	Leather Edge.	Metal Edge.
21XII	\$1.49	\$1.70	21XI3	\$1.64	\$1.85	21XI5	\$1.79	\$2.00
22XII	1.52	1.74	22XI3	1.68	1.90	22XI5	1.83	2.05
23XII	1.56	1.79	23XI3	1.72	1.95	23XI5	1.88	2.11
24XII	1.59	1.83	24XI3	1.76	2.00	24XI5	1.94	2.18
25XII	1.65	1.90	25XI3	1.83	2.08	25XI5	2.01	2.26
26XII	1.70	1.96	26XI3	1.88	2.14	26XI5	2.06	2.32
27XII	1.73	2.00	27XI3	1.93	2.20	27XI5	2.12	2.39
28XII	1.77	2.05	28XI3	1.97	2.25	28XI5	2.16	2.44
29XII	1.83	2.12	29XI3	2.03	2.32	29XI5	2.21	2.50
30XII	1.88	2.18	30XI3	2.08	2.38	30XI5	2.27	2.57
31XII	1.92	2.23	31XI3	2.13	2.44	31XI5	2.33	2.64
32XII	1.95	2.27	32XI3	2.17	2.49	32XI5	2.37	2.69
33XII	1.98	2.31	33XI3	2.21	2.54	33XI5	2.43	2.76
34XII	2.03	2.37	34XI3	2.26	2.60	34XI5	2.49	2.83
35XII	2.07	2.42	35XI3	2.31	2.66	35XI5	2.55	2.90
36XII	2.12	2.48	36XI3	2.37	2.73	36XI5	2.61	2.97
37XII	2.16	2.53	37XI3	2.42	2.79	37XI5	2.67	3.04
38XII	2.21	2.59	38XI3	2.47	2.85	38XI5	2.72	3.10
39XII	2.25	2.64	39XI3	2.52	2.91	39XI5	2.78	3.17
40XII	2.30	2.70	40XI3	2.57	2.97	40XI5	2.84	3.24
41XII	2.34	2.75	41XI3	2.62	3.03	41XI5	2.90	3.31
42XII	2.37	2.79	42XI3	2.67	3.09	42XI5	2.97	3.39

BLACKSMITHS' APRONS.

Heavy Sheepskins Each, \$1.25

LAZY BACKS.

NARROW LAZY BACKS.



No. 1. Trimmed with Rubber Drill	Each, \$1.40
" 2. " " Corduroy	" 1.40
" 3. " " Imitation Leather	" 1.75
" 4. " " 12 oz. Broadcloth	" 2.00
" 5. " " Black or Fancy Leather	" 2.50

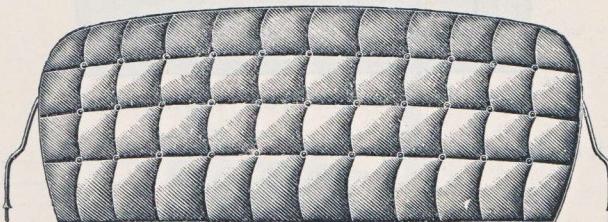
Prices include Woods and Iron.

MEDIUM LAZY BACKS.

No. 1. Trimmed with Rubber Drill	Each, \$1.75
" 2. " " Corduroy	" 1.75
" 3. " " Imitation Leather	" 2.00
" 4. " " 12 oz. Broadcloth	" 2.50
" 5. " " Black or Fancy Leather	" 2.75

Prices include the Woods and Iron.

FULL DROP BACKS.

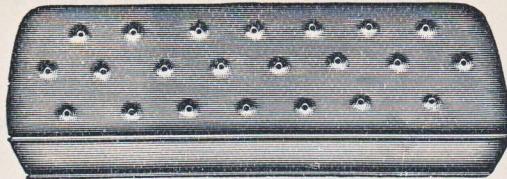


No. 1. Enamelled Muslin, plain	Each, \$1.00
" 2. " Drill, plain	" 1.40
" 3. " Duck, plain	" 1.50
" 4. Fancy Imitation Leather, plain	" 2.00
" 5 A. Rubber, biscuit	" 3.00
" 5 B. " plain	" 1.75
" 6 A. 16 oz. Broadcloth, biscuit	" 6.00
" 6 B. 12 oz. " plain	" 4.00
" 7 A. Evans' Artificial Leather, biscuit	" 4.00
" 7 B. " " plain	" 2.85
" 8 A. Fancy Leather, biscuit	" 6.00
" 8 B. " " plain	" 4.00
" 9. Black E. S., plain	" 3.00

These prices do not include Woods and Iron.

In ordering backs give exact measurement of seat from outside.

CUSHIONS.



PLAIN TOP CUSHION.

No.	A.	Enameled Drill	Cushion, Faced.....	Each, \$1.00
"	1 AF.	" "	with Fall.....	" 1.10
"	1 B.	" "	.....	" .85
"	1 BF.	" "	with Fall.....	" 1.00
"	2 A.	Rubber	" Biscuit.....	" 2.50
"	2 AF.	" "	with Fall.....	" 3.00
"	2 B.	" "	Plain.....	" 1.10
"	2 BF.	" "	with Fall.....	" 1.40
"	3 A.	Corduroy	" Biscuit.....	" 3.00
"	3 AF.	" "	with Fall.....	" 3.50

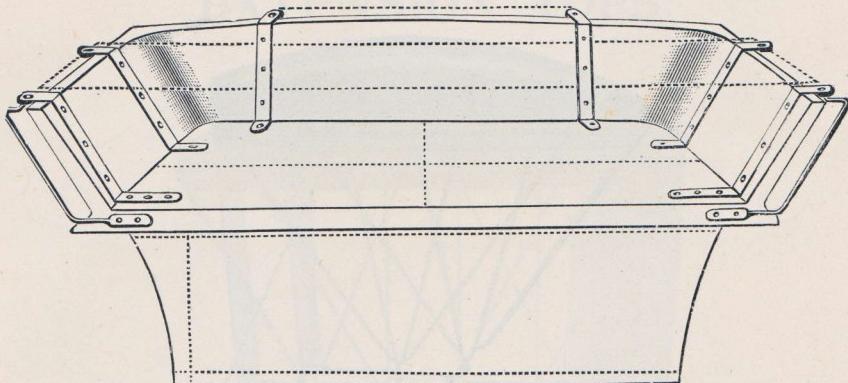


BISCUIT PATTERN TOP, WITH FALL.

No.	A.	Black or Green S Leather,	Biscuit.....	Each, \$4.00
"	4 AF.	" "	with Fall.....	" 4.50
"	4 B.	" "	Plain.....	" 3.00
"	4 BF.	" "	with Fall.....	" 3.50
"	5 A.	Best Black or Fancy Leather,	Biscuit.....	" 5.50
"	5 AF.	" "	with Fall.....	" 6.00
"	6 A.	16 oz. Broadcloth,	Biscuit.....	" 5.50
"	6 AF.	" "	with Fall.....	" 6.00
"	6 B.	12 oz.	Plain.....	" 3.50
"	6 BF.	" "	with Fall.....	" 4.00
"	7 A.	Fancy Artificial Leather,	Biscuit.....	" 3.50
"	7 AF.	" "	with Fall.....	" 4.00
"	7 B.	" "	Plain.....	" 2.50
"	7 BF.	" "	with Fall.....	" 2.75
"	8	Imitation	" Plain.....	" 1.40
"	8 F.	" "	with Fall.....	" 1.65

In ordering Cushions give length and width of bottom of seat inside. State whether round or square corners. Round corners will be sent when not otherwise ordered.

For Falls give length of top, length of bottom and depth.

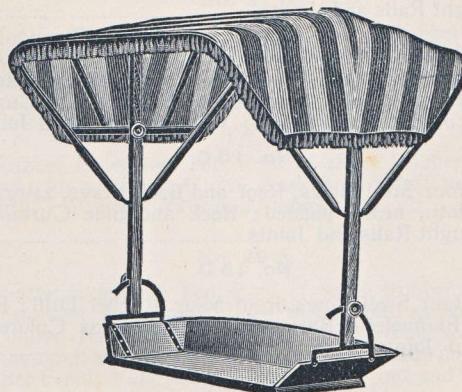
DIRECTIONS FOR MEASUREMENTS.

For Tops.—Give measurements from center to center of holes in Irons, as shown by dotted lines on top of Seat.

For Lazy Backs with Irons.—Give same measurements.

For Cushions.—Give measurements shown by lines on bottom of Seat.

For Cushions with Falls.—As shown by lines on bottom of Seat and Fall.

SUN SHADES.

No. 1.

Brown or White Duck	Each, \$4.00
Fringed	" 5.00

No. 2

Striped Awning	Each, \$5.00
Fringed	" 6.00

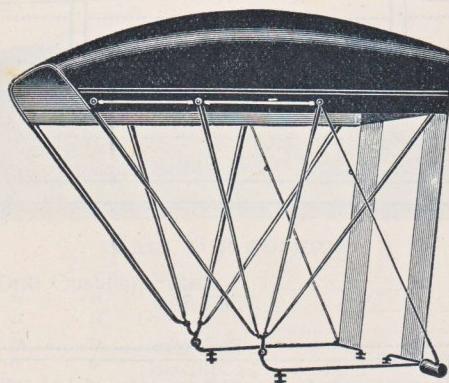
No. 3.

Enameled Drill	Each, \$4.00
Fringed	" 5.00

No. 4.

Rubber Drill	Each, \$6.00
Fringed	" 7.00

BUGGY TOPS.



No. 13.

An Unlined Rubber Top, three or four Steel Bows, Roof, Back Stays and Back Curtains of heavy colored Back Rubber Drill; Side Curtains, colored Back Enamel Drill. Wrought Rails and Joints..... Price, \$10.00

No. 15 A.

Our Best Full Rubber Top, three or four Steel Bows, Roof of 30-oz. Rubber, lined throughout with 10-oz. All-Wool Cloth, well padded, Back Stays double, showing no raw edges, well stiffened with Buckram, Valance Hand Stitched Front and Back. Wrought Rails and Joints..... Price, \$20.00

No. 15 B.

Full Rubber Top, three or four Steel Bows, Roof 28-oz. Rubber, Roof and Back Curtains lined with All-Wool Cloth, neatly padded; Side Curtains Colored Back Drill, Bound off Back and Front. Wrought Rails and Joints..... Price, \$16.50

No. 15 C.

Rubber Top, three or four Steel Bows, Roof and Back Stays, 24-oz. Rubber, lined with All-Wool Cloth, neatly padded; Back and Side Curtains of Colored Back Drill. Wrought Rails and Joints..... Price, \$13.50

No. 15 D.

Rubber Top, three or four Steel Bows, Roof 20-oz. Rubber Drill; Roof and Back Stays lined with Flannelette, Back and Side Curtains Colored Back Drill. Wrought Rails and Joints..... Price, \$11.00

No. 16 A.

A Leather Quarter Top, three or four Steel Bow Sockets, Roof of 30-oz. Rubber, Side Quarters and Back Stays No. 1 M. B. Leather; lined throughout, except Side Curtains, with 10-oz. All-Wool Cloth, Back Stays double, showing no raw edges; Valance Hand Stitched Front and Back, Wrought Rails and Joints..Price, \$23.00

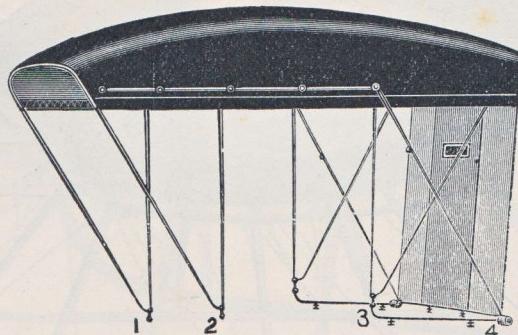
No. 16 C.

Leather Quarter Top, three or four Steel Bow Sockets, Roof 24-oz. Rubber Drill, Leather Quarter and Back Stays, Roof and Stays lined with All-Wool Cloth, Back and Side Curtains Colored Back Drill. Wrought Rails and Joints.. Price, \$16.50

No. 16 D.

Leather Quarter Top, three or four Bow Sockets, Leather Side Quarters and Stays, Roof 20-oz. Rubber; Roof and Back Stays lined with Flannelette (imitation wool), Back and Side Curtains Colored Back Drill. Wrought Rails and Joints..... Price, \$13.50

EXTENSION TOPS.



No. 21 A.

A Best Rubber Extension Top for Two Seats, Roof of 30-oz. Rubber Drill, lined throughout, except Side Curtains, with All-Wool Cloth and well padded, Back Stays double, showing no raw edges, stiffened with Buckram and lined, Hand Stitched both Front and Back, four Steel Bow Sockets. Wrought Rails and Joints Price, \$26.00

No. 21 B.

A Four Steel Bow Rubber Extension Top, Roof of 24-oz. Rubber Drill, lined with 9-oz. All-Wool Cloth, Flock Back Curtains, unlined Colored Back Drill Side Curtains. Wrought Rails and Joints Price, \$22.50

No. 21 C.

A Four Steel Bow Rubber Extension Top, Roof of 18-oz. Rubber Drill, Roof and Back Stays lined with All-Wool Cloth, Back and Side Curtains of Colored Back Enamel Drill. Wrought Rails and Joints Price, \$19.00

No. 22 A.

The Best Leather Quarter Extension Top, Roof of 30-oz. Rubber Drill, Side Quarters and Back Stays M. B. Leather, lined throughout, except Side Curtains, which are of Colored Back Rubber, with good All-Wool Cloth, Top neatly padded, Back Stays well stiffened with Buckram and made double, showing no raw edges, Leather Front, Valances Hand Stitched Front and Back. Wrought Rails and Joints Price, \$35.00

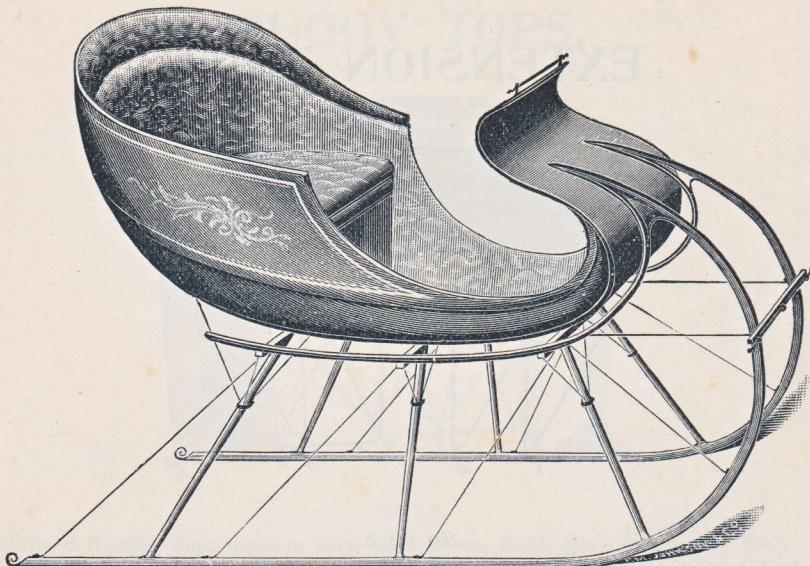
No. 22 B.

A Leather Quarter Extension Top, Roof of 26-oz. Rubber, Side Quarters and Back Stays of Leather, Back Curtains Flock Rubber, Side Curtains Colored Back Rubber. Wrought Rails and Joints Price, \$31.00

No. 22 C.

A Leather Quarter Extension Top, Roof of 24-oz. Rubber Drill, Side Quarters and Back Stays of Leather, Roof and Back Stays lined with All-Wool Cloth Lining, Back and Side Curtains of Colored Back Enamelled Drill. Wrought Rails and Joints Price, \$28.00

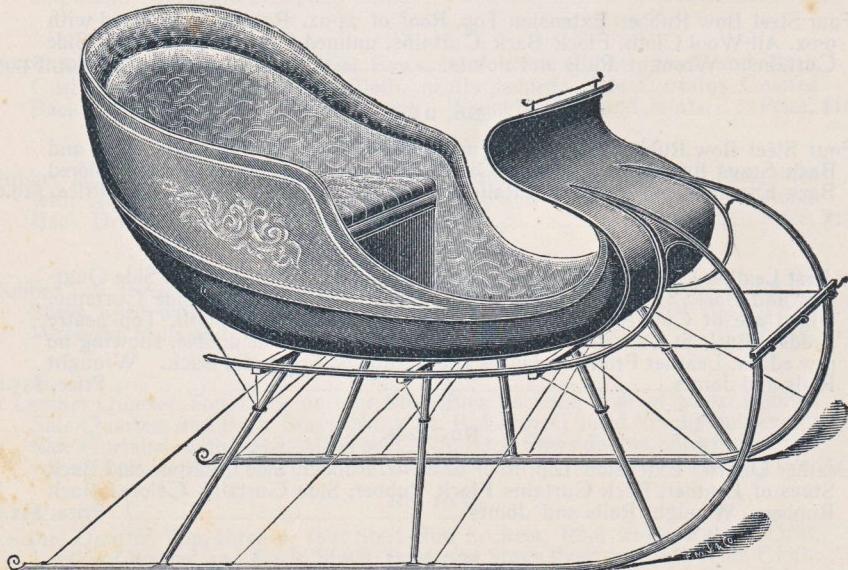
We can furnish any article desired in the Top line on short notice.

CUTTERS AND SLEIGHS.

NO. 13. SWELL BODY.

Our Standard Swell Body Cutter. Large size; high Back; strongly Ironed; Clipped Knees: Scroll Shoes at end of Runners; Fancy Nickel Line Rail; Detachable Cushion; Patent Shifting Bar. First-class material used throughout. Fully guaranteed. The best Sleigh made.

No. 13 A. Trimmed with Figured, Plain Ruby or Green Valour.....	\$26.50
" 13 B. " " No. 1 Moquette, Red and Black.....	28.00
" 13 C. " " Crushed Silk Plush, Red or Blue, Extra Fine Painting....	29.50



NO. 14. OLD COMFORT SLEIGH.

Quality and description same as No. 13. Body is extra large; high Back; Seat very wide. Undoubtedly the roomiest Swell Body Sleigh made.

No. 14 A. Trimmed with Figured, Plain Ruby or Green Valour.....	\$28.00
" 14 B. " " No. 1 Moquette, Red and Black.....	29.50

" 14 C. " " Crushed Silk Plush, Red or Blue, Extra Fine Painting....	31.00
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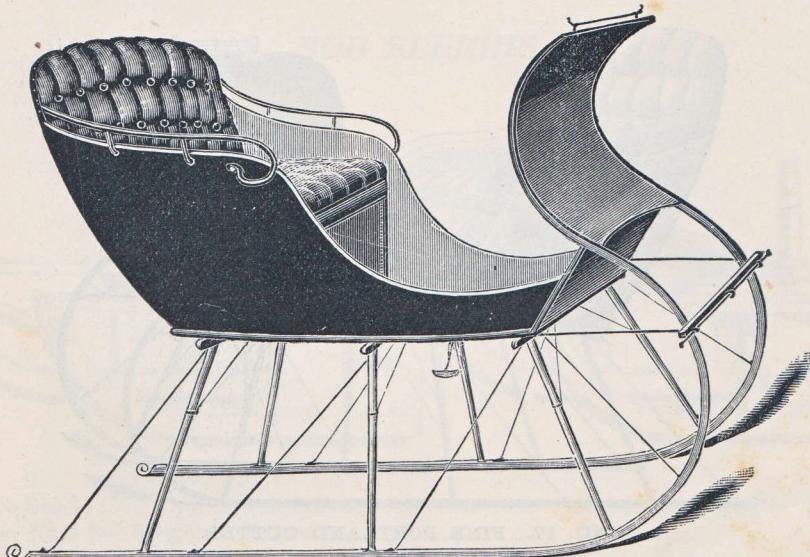
Above prices include Shafts. For Pole in place of Shafts add \$3.00 each.

CUTTERS AND SLEIGHS.

NO. 114. BENT KNEE SLEIGH.

The finest Swell Body Sleigh made, Bent Knees; Clipped; Turned-up Shoes; strongly Ironed; Shifting Bar; Fancy Nickel Line Rail; highly finished; elegantly striped; extra large size body.

No. 114. Trimmed with Fine Red Mohair Plush \$36.50



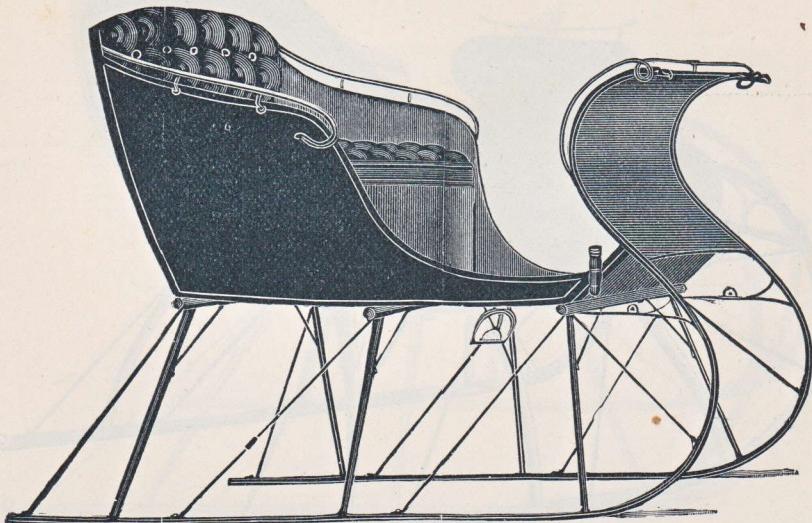
NO. 100. PORTLAND CUTTER.

The Best Medium-Priced Portland on the market. Good stock used throughout; Nickel Line and Arm Rails; well finished and nicely striped; Shafts with Shifting Bar.

No. 100 A. Trimmed with 12-oz. Green All-Wool Cloth \$30.00

" 100 B. " " Embossed Plushette 31.00

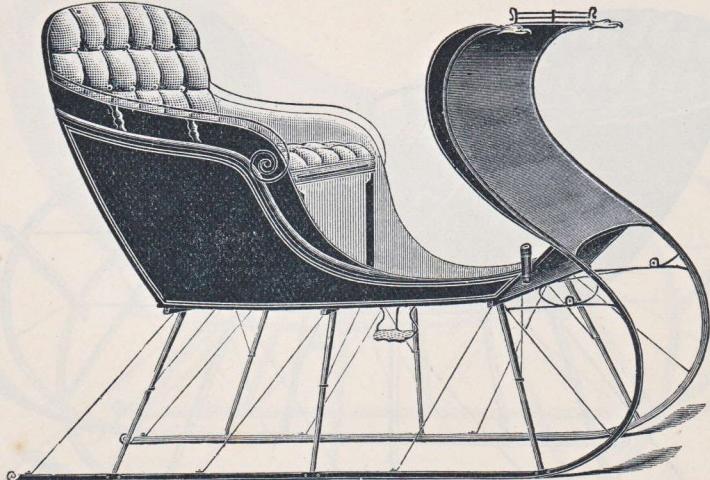
Above prices include Shafts. For Pole in place of Shafts add \$3.00 each.

CUTTERS AND SLEIGHS.

NO. 18. PORTLAND CUTTER.

A great seller last season. High back. Well built throughout. Nicely painted—gold line stripe. Fine nickel line and arm rails. Shafts and shifting bar. A strong, desirable sleigh.

No. 18 A. Trimmed with 14-oz. Green All-Wool Cloth.....	\$35.00
" 18 B. " " Embossed Plushette.....	35.00

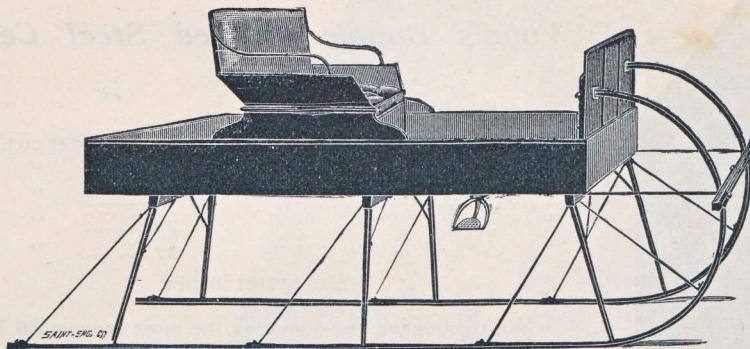


NO. 17. FINE PORTLAND CUTTER.

Cannot be equaled for a Good Grade Sleigh at a reasonable price. Sold better than any Portland of its class last year. Exclusive style body. Fancy nickel rails. Bent knees, all clipped scroll shoes. Ele-gantly painted, and everything about it strictly "A" grade.

No. 17 A. Trimmed with 14-oz. Imported Broadcloth.....	\$40.00
" 17 B. " " Fine Crimson Silk Plush.....	45.00

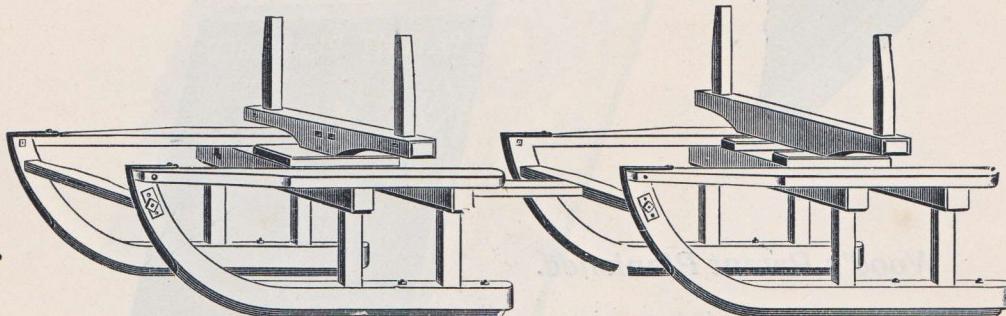
Write for prices on Two Seat Portlands or Business Cutters.



NO. 22. BUSINESS CUTTER.

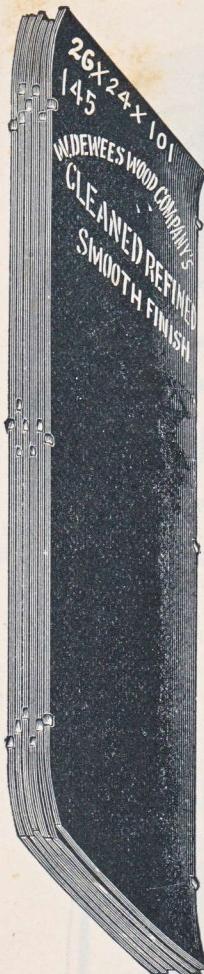
A Good Medium-Priced Sleigh. Full Back, Shifting Bar, Trimmed with Plain or Figured Valour..... \$22.00

BOB SLEIGHS.



Two Bench, Clip Knee Bob Sleighs.....	\$17.00
Two Knee Bob Sleighs, T Braced.....	19.00
Three " " " "	20.00
Oscillating Bob Sleighs, best made.....	20.00

The Shoes are Rights and Lefts, and beveled so as to run square when on the ground, while all other makes run on the edge, and easily sliding cause a great strain on the Runner, and in most all cases break down with a heavy load.



Wood's Double Refined Steel Center Iron.

Extra Quality, both sides smooth, No. 20.....	Per cwt., \$3.55
" " " " 22.....	" 3.65
" " " " 24.....	" 3.65
" " " " 26.....	" 3.75
" " " " 27.....	" 3.85

Size 24x101 inches.

We recommend the above as the most economical Iron to buy, as the finish, quality and the ease with which it is worked, more than counterbalances the slight advance in price over Common Sheet.

COMMON SHEET STEEL.

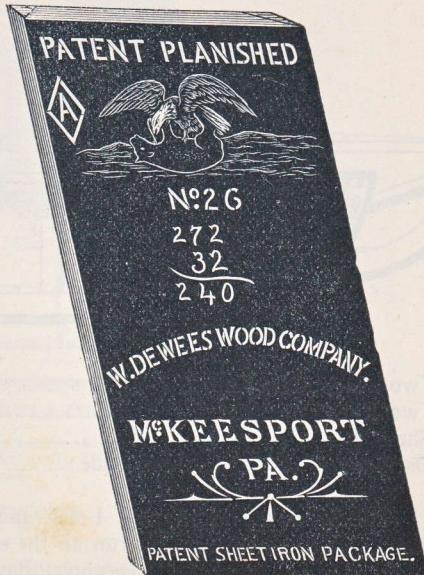
First Quality, No. 14 to 20.....	Per cwt., \$3.00
" " " 22 to 24.....	" 3.10
" " " 25 to 26.....	" 3.20
" " " 27.....	" 3.30

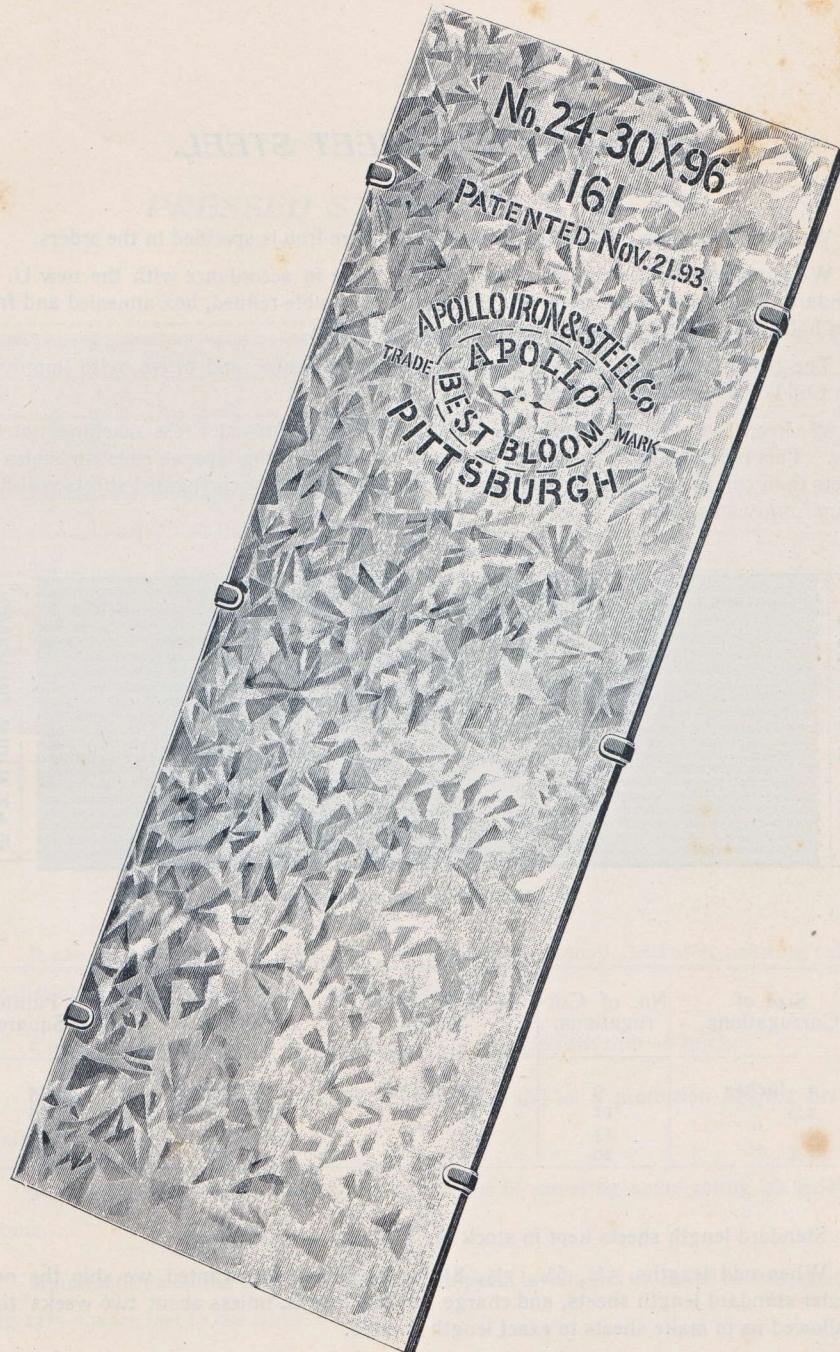
No. 14 to 22, 24x96 inches. No. 24 to 27, 24x101 inches.

Wood's Patent Planished.

Size, 28x60 inches.

A American Russia, Nos. 26 and 27, Per cwt.,	\$10.35
B American Russia, No. 26...Per cwt., 9.35	
Genuine Russia, No. 10..... "	12.50





JUNIATA GALVANIZED IRON.

Nos. 14 to 16	List, 12	Nos. 25 and 26	List, 15
" 18 and 20	" 13	No. 27	" 16
" 22 and 24	" 14	" 28	" 17

Regular stock size for all numbers is 28x96 inches, but we carry No. 24, 36x96, list .15, and No. 26, 30x96 and 36x96 inches, list .16; No. 27, 24x96 and 30x96; Nos. 16, 18 and 20, 28x101 inches long.

CORRUGATED SHEET STEEL.

We have abandoned the use of Iron, except where Iron is specified in the orders.

We guarantee our Corrugated Steel Sheets to be in accordance with the new U. S. Standard Gauge and made from the best material, double refined, box annealed and free from holes and scale, not made from common boiled iron.

The black sheets are painted on both sides, by machine and brush, with Improved Iron Oxide Paint, and guaranteed pure.

We keep five sizes of corrugations formed by an Improved Press machine, not by rolls. This produces more perfect formations and better fitting laps at ends and sides of sheets than can be produced by any other process in use. Our corrugated sheets will line up uniformly straight.



2½ Inch Corrugated Sheet.

Size of Corrugations.	No. of Cor- rugations.	Full Width of Sheet.	Covering Width.	Price, Painted, Per Square.
3 inches	9	26 inches	24 "	\$3.25
2½ "	11	26 "	24 "	3.25
2 "	13	26 "	24 "	3.50
1¼ "	20	25 "	24 "	3.75

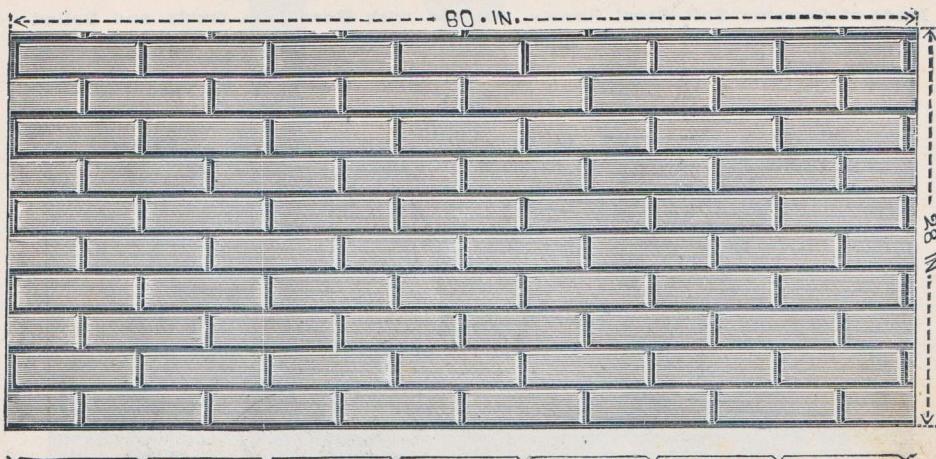
Standard length sheets kept in stock are 5, 6, 7, 8, 9 and 10 feet.

When odd lengths, 5¼, 6¾, 7½, 8½ and 9½ feet are wanted, we ship the next greater standard length sheets, and charge for full length, unless about two weeks' time is allowed us to make sheets to exact length wanted.

We always ship sheets of 8 feet lengths, of No. 28 gauge, when length and gauge wanted is not specified in the order.

Full length and width of corrugated sheets is charged for. No allowance for laps.

When ordering, state whether for Roofing or Siding, and whether Painted or Galvanized Steel Sheets are wanted.

PRESSED STEEL BRICK SIDING.

MADE OF SHEET STEEL, PAINTED.

It can be applied by any mechanic. Lays perfectly smooth, and after painting cannot be distinguished from finest Philadelphia Pressed Brick.

Costs no more than best wood siding and about one-fifth that of brick.

In beauty of appearance, durability, cheapness and as a protection against fire, we claim this Siding has no equal.

Most Insurance Underwriters give this style of covering same rating as Brick or Stone.

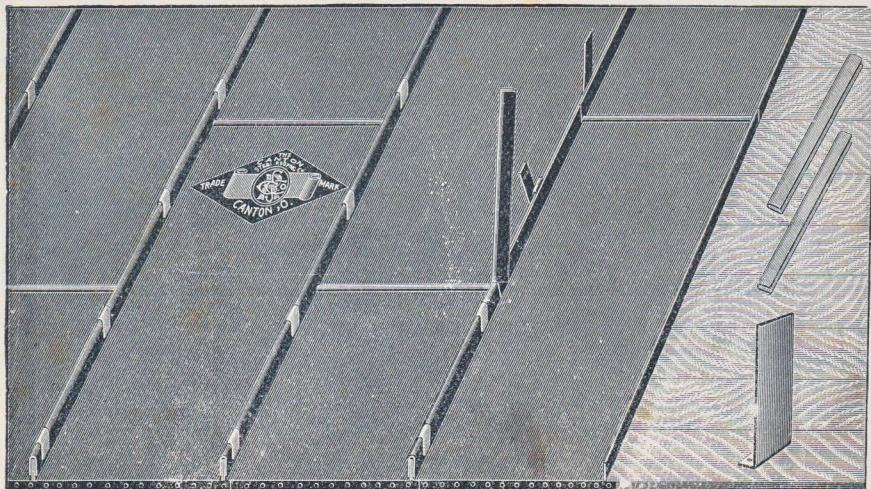
Manufactured of the best Soft Steel and shipped in lengths of 60x28 inches, containing $11\frac{2}{3}$ square feet to the sheet.

A Square of Brick Siding consists of $8\frac{1}{4}$ sheets, 60 inches long by 28 inches wide, painted both sides, and will weigh 70 pounds.

Steel Brick Siding	Per square, \$4.00
--------------------------	--------------------

ROLL AND CAP ROOFING.

Made of Genuine Soft Steel Sheets, Painted with Pure Iron Oxide and Boiled Linseed Oil Paint.



Roll and Cap Roofing Per square, \$3.50

Sheets Connected at ends by Double Seamed Cross-Locks.

Put up in rolls containing 100 square feet of roofing, 1½ pounds Galvanized Cleats and 50 lineal feet of Cap, which constitutes one Square.

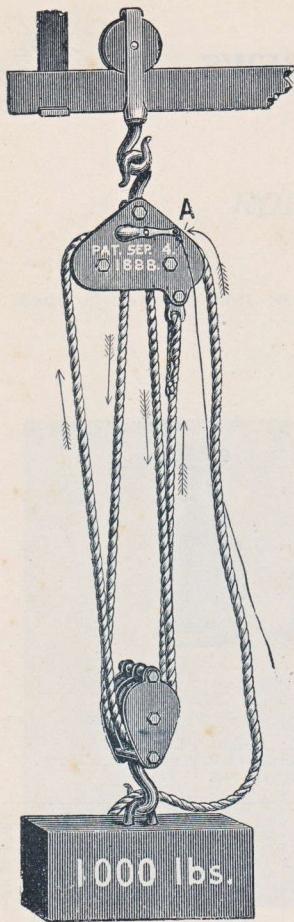
Tools for applying: 1 inch Tongs, Cap Squeezers, Shears, Hammer and Mallet.

Apply as indicated by the cut shown.

LOCOMOTIVE JACK SCREWS.



Diam. of Screw Inches.	Height of Stand. Inches.	Height Over All. Inches.	Lifting Capacity Tons.	Price.	Diam. of Screw Inches.	Height of Stand. Inches.	Height Over All. Inches.	Lifting Capacity Tons.	Price.
1 1/8	6	9	8	\$2.90	2	18	22 1/2	20	\$10.25
1 1/8	8	11	8	3.25	2	20	24 1/2	20	11.50
1 1/8	10	13	8	3.60	2	22	26 1/2	20	12.50
1 1/8	12	15	8	4.00	2	24	28 1/2	20	13.50
1 1/8	14	17	8	4.40	2 1/4	8	13	24	7.50
1 1/4	6	9	10	3.10	2 1/4	10	15	24	8.25
1 1/4	8	11	10	3.40	2 1/4	12	17	24	9.00
1 1/4	10	13	10	3.80	2 1/4	14	19	24	10.00
1 1/4	12	15	10	4.20	2 1/4	16	21	24	11.00
1 1/4	14	17	10	4.60	2 1/4	18	23	24	12.00
1 1/2	5	8	12	3.50	2 1/4	20	25	24	13.25
1 1/2	6	10	12	3.75	2 1/4	22	27	24	14.50
1 1/2	8	12	12	4.25	2 1/4	24	29	24	15.75
1 1/2	10	14	12	4.75	2 1/2	6 1/2	11	28	8.00
1 1/2	12	16	12	5.25	2 1/2	8	14	28	8.75
1 1/2	14	18	12	6.00	2 1/2	10	16	28	9.75
1 1/2	16	20	12	6.75	2 1/2	12	18	28	10.75
1 3/4	6	10	16	4.50	2 1/2	14	20	28	12.00
1 3/4	8	12	16	5.00	2 1/2	16	22	28	13.25
1 3/4	10	14	16	5.75	2 1/2	18	24	28	14.50
1 3/4	12	16	16	6.25	2 1/2	20	26	28	15.75
1 3/4	14	18	16	6.75	2 1/2	22	28	28	17.00
1 3/4	16	20	16	7.50	2 1/2	24	30	28	18.25
1 3/4	18	22	16	8.50	2 1/2	28	34	28	22.00
2	5	9 1/2	20	5.00	2 1/2	32	38	28	26.00
2	6	10 1/2	20	5.25	3	14	20	36	19.50
2	8	12 1/2	20	6.00	3	16	22	36	20.75
2	10	14 1/2	20	6.75	3	18	24	36	22.00
2	12	16 1/2	20	7.50	3	20	26	36	23.25
2	14	18 1/2	20	8.25	3	22	28	36	24.50
2	16	20 1/2	20	9.25	3	24	30	36	25.75



DETROIT SURE-GRIP STEEL TACKLE BLOCKS.

Revised Prices of the Detroit Sure-Grip Steel Tackle Blocks, Including Lower Block.

No. 3.	To be used with $\frac{3}{8}$ inch rope. One man can lift.....	300 lbs.	
	Capacity	600 "	\$ 3.00
No. 4.	To be used with $\frac{1}{2}$ inch rope. One man can lift.....	350 lbs.	
	Capacity	1000 "	5.50
No. 5.	To be used with $\frac{5}{8}$ inch rope. One man can lift.....	400 lbs.	
	Capacity	1800 "	7.00
No. 6.	To be used with $\frac{3}{4}$ inch rope. One man can lift.....	450 lbs.	
	Capacity	2500 "	8.50
No. 4½	To be used with $\frac{1}{2}$ inch rope. One man can lift.....	600 lbs.	
	Capacity	3000 "	10.00
No. 5½	To be used with $\frac{5}{8}$ inch rope. One man can lift.....	700 lbs.	
	Capacity	3500 "	12.00
No. 6½	To be used with $\frac{3}{4}$ inch rope. One man can lift.....	850 lbs.	
	Capacity	5000 "	14.00

Can supply Overhead Track, also Trolleys and Hangers for same.

INSTRUCTIONS FOR REEVING.

Enter rope at A, pass wedge, and follow arrows as shown in cut. It will be noticed the two center ropes coming in contact with wedge always travel in same direction at same time. Take twist out of rope.

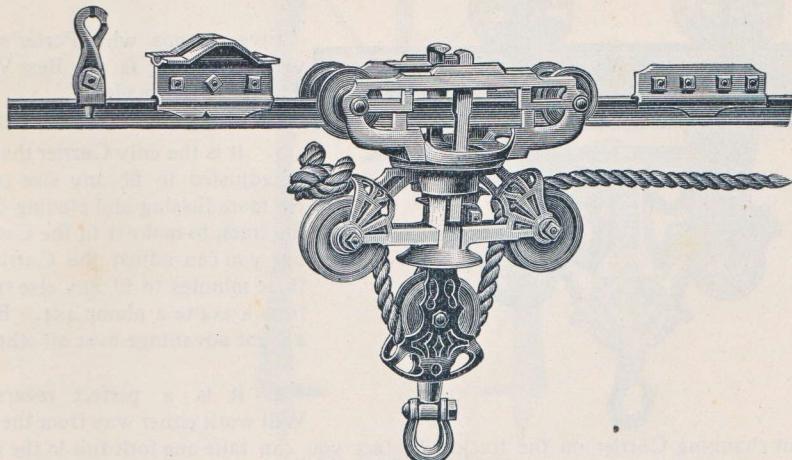
Tested by United States Standard Sealed Weights the Sure-Grip shows the following splendid record:

	Tested as Follows Without Breaking.	We Claim Only.
No. 3 Block.....	2,800 lbs.	600 lbs.
" 4 "	3,800 "	1,000 "
" 5 "	4,500 "	1,800 "
" 6 "	5,800 "	2,500 "
" 6½ "	9,000 "	4,000 "

The Brake always holds under the severest strain.

HAY TOOLS.

"TREDWAY" SOLID STEEL TRACK HAY CARRIER.



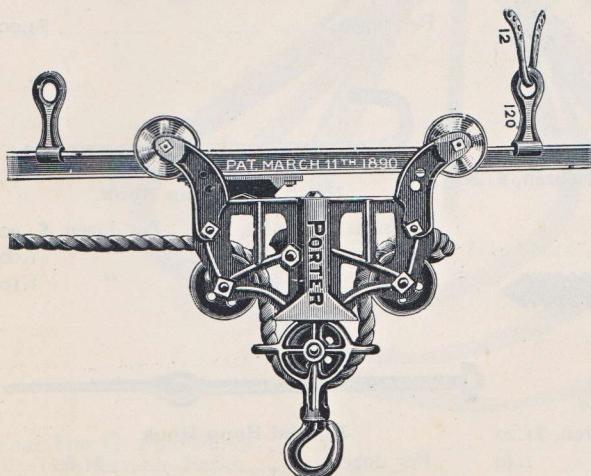
In offering the Tredway Steel Track Carrier to our friends, we do so knowing it to be a thoroughly First-Class machine in every respect. It is made of the best annealed Malleable Iron, is strong, and being simple, must be Durable. The carrier is what is known as a Combination machine, or a Swivel and Reversible both in one, and the object is to enable the dealer to supply all kinds of trade and carry only one stock of goods, as it covers the entire field. It is constructed with straight flanged wheels Bored on a Lathe so as to run true, which revolve on a $\frac{3}{4}$ inch turned steel axle.

THE LOCK.—The Lock is composed of two malleable pieces with No Springs, and is a positive Force Lock, cannot get out of order. Stop is clamped to Top of Track and can be adjusted to any point desired. All rope wheels revolve on large bushings.

THE HANGING HOOK is Malleable Iron, composed of two parts; can be put on or taken off at any point along the track. By means of this hook our single rail track can be put up in one-half the time required in putting up any other track. The Track is a solid steel beam 2 1-16 inch wide by 1 $\frac{1}{4}$ inch deep, with no holes, all pieces being exact duplicates. The splice is made by means of a malleable iron clamp, held in place by four bolts and can be applied to any two pieces of the rail, and makes a splice as strong as any other part of the rail.

Tredway's Steel Track Carrier.....	Each, \$7.50
Steel Track for Tredway Carrier.....	Per foot, .20
Hang Hooks.....	Per dozen, .00

PORTER'S NEW RAILROAD STEEL TRACK CARRIER AND FIXTURES.



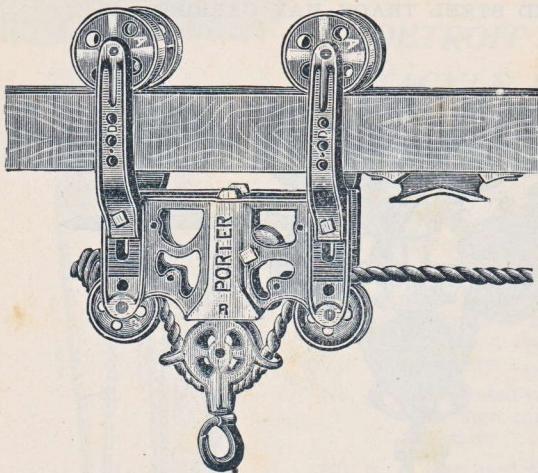
The Porter Solid Steel Track and the Porter Steel Track Hay Carrier are the best because:

1. The track is solid, no need of clamps or rivets to hold it together.
2. The farmer can place it in position, thus saving a large part of the expense on other kinds.
3. It will bear more strain without bending than other tracks will.
4. The Carrier is of Malleable Iron, strong and well put together, and works perfectly every time. It has solid axles that cannot either break or wear out.
5. It cannot run off the track.

Porter's Steel Track Carrier	Each, \$7.50
Steel Track for Porter Carrier.....	Per foot, .20
No. 120 Hang Hooks for Porter's Steel Track Carrier	Per dozen, 1.00

Porter's Wood Track Reversible and Adjustable Carrier.

Can be Adjusted to Any Size Track. Light, Strong and Durable.



Five reasons why Porter's Reversible Carrier Is the Best Wood Track Carrier made:

1. It is the only Carrier that can be adjusted to fit any size track. No more fussing and planing down the track to make it fit the Carrier, but you can adjust the Carrier in three minutes to fit any size track, from a 2x4 to a plump 4x4. Being a great advantage over all others.

2. It is a perfect reversible. Will work either way from the stop

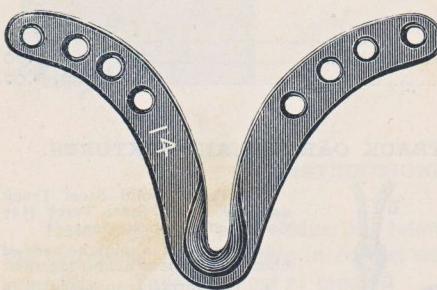
without changing Carrier on the track. In fact you can take one fork full to the right and the next to the left, if you wish, by using the endless draft rope.

3. The Trip Pulley that the fork hangs in has a patent lock, as shown in cut, which makes it impossible for the fork to jump out of the hook, as it does in the old style hooks.

4. It is made of Malleable Iron and is very simple in construction. It has no springs to get out of repair. Anybody can handle it.

5. It is run on four large wheels, either plain or flanged as ordered.

Porter's Wood Track Carrier Each, \$6.50



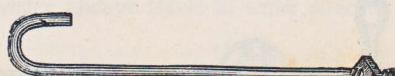
No. 12 Rafter Iron.

Malleable Iron..... Per dozen, \$.80



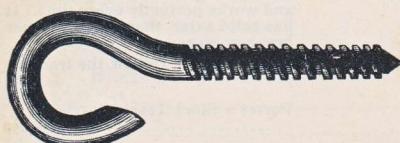
Swivel Rope Hitch.

Per dozen \$4.00



No. 6 Stiff Hang Hook.

12 inch.....	Per dozen, \$.90
14 " "	" 1.00
16 " "	" 1.10



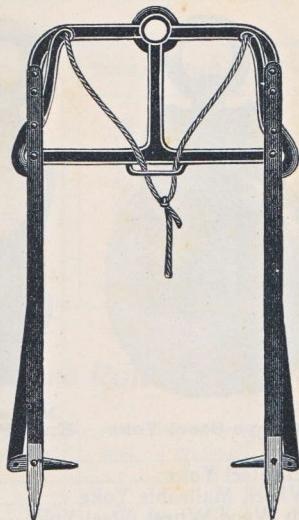
Wrought Floor Hooks.

5/8 in. Diameter..... Per dozen, \$1.20
3/4 in. " " " 1.40



Jointed Hang Hook.

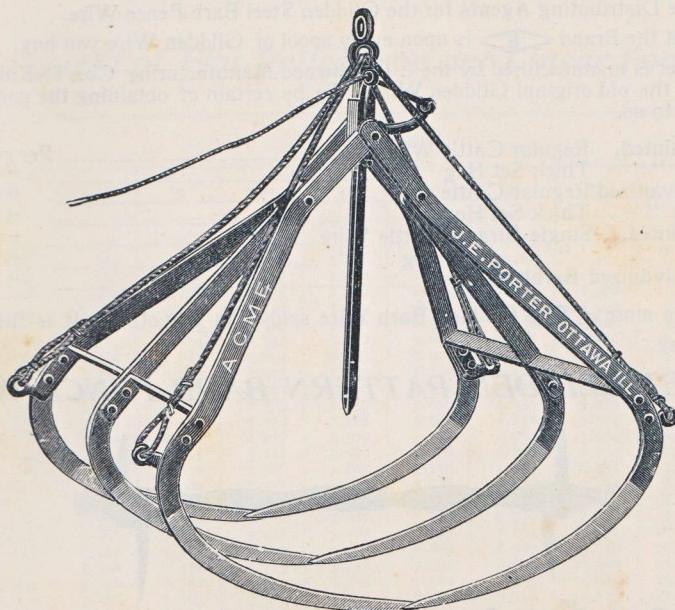
Per dozen \$1.80

STEEL DOUBLE HARPOON FORKS.

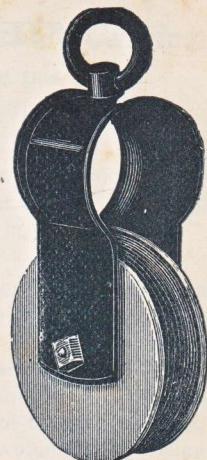
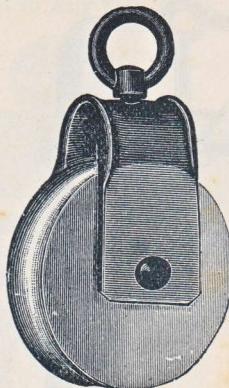
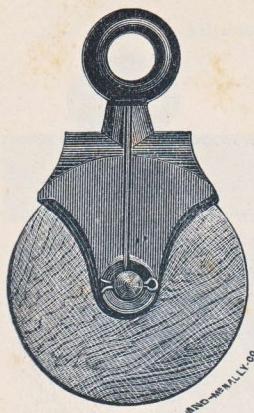
Double Harpoon Fork.

Simple, strong, durable and convenient, and has no exposed parts to be injured by contact with beams, etc. It penetrates the hay easily, and compresses it from top to bottom, thus adapting it especially to the handling of fine, short or brittle hay. With it the hay is separated from the load with considerable less power, and is much more easily placed in the mow than any other fork.

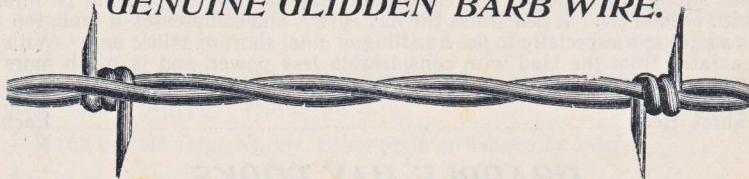
Long or Short Head Each, \$1.80

GRAPPLE HAY FORKS.

Four-Tine Grapple Forks Each, \$7.00
Six-Tine Grapple Forks " 8.00

HAY FORK PULLEYS.

6 Inch Wood Wheel.	Hawkeye Steel Yoke.	Malleable Knot Passing.	Hawkeye Knot Passing.
Wood Wheel, 6 inch			Per dozen, \$3.50
Hawkeye, 6 inch Wood Wheel, Steel Yoke.....			" 4.00
Knot Passing, 6 inch Wood Wheel, Malleable Yoke.....			" 4.00
Hawkeye Knot Passing, 6 inch Wood Wheel, Steel Yoke.....			" 4.50

GENUINE GLIDDEN BARB WIRE.

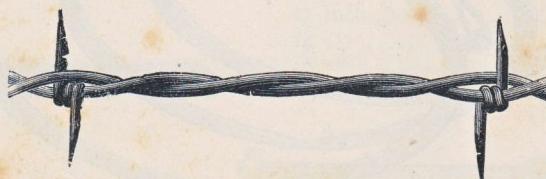
We are Distributing Agents for the Glidden Steel Barb Fence Wire.

See that the Brand  is upon every spool of Glidden Wire you buy.

No other is manufactured by the I. L. Ellwood Manufacturing Co., DeKalb, Ill., and no other is the old original Glidden Wire. To be certain of obtaining the genuine, send your orders to us.

Glidden, Painted, Regular Cattle Wire.....	Per cwt., \$ 2.50
" " Thick Set Hog "	" 2.50
" Galvanized Regular Cattle "	" 2.90
" " Thick Set Hog "	" 2.90
" Painted, Single Strand Cattle Wire.....	" 2.40
" " " Hog "	" 2.40
" Galvanized Barbless Wire	" 2.90

There is more  Glidden Barb Wire sold than any other. It is the Standard Barb Fencing.

JOLIET GLIDDEN PATTERN BARB FENCE WIRE.

Painted, 2 Point, Regular Cattle, or Thick Set Hog Wire.....	Per cwt., \$ 2.50
Galvanized, 2 Point, " " " " " "	" 2.90
Joliet Twisted Galvanized Barbless Wire.....	" 2.90

Weight of Round Rolled Iron per Linear Foot.

Diam.	Weight.	Diam.	Weight.	Diam.	Weight.	Diam.	Weight.	Diam.	Weight.
1-16	.010	13-16	1.752	1 5/8	7.010	3 1/8	25.926	4 5/8	56.788
1/8	.041	7/8	2.032	1 3/4	8.128	3 1/4	28.040	4 3/8	59.900
3-16	.094	15-16	2.333	1 7/8	9.333	3 3/8	30.240	4 7/8	63.094
1/4	.105	1	2.654	2	10.616	3 1/2	32.512	5	66.752
5-16	.261	1-16	2.997	2 1/8	11.988	3 3/8	34.886	5 1/8	69.731
3/8	.373	1 1/8	3.360	2 1/4	13.440	3 1/4	37.332	5 1/4	73.172
7-16	.508	1-3-16	3.744	2 3/8	14.975	3 3/8	39.864	5 3/8	76.700
1/2	.663	1 1/4	4.172	2 1/2	16.688	4	42.464	5 1/2	80.304
9-16	.840	1 5-16	4.573	2 5/8	18.293	4 1/8	45.174	5 5/8	84.001
5/8	1.043	1 1/2	5.019	2 3/4	20.076	4 1/4	47.952	5 1/4	87.776
11-16	1.255	1 7-16	5.486	2 7/8	21.944	4 3/8	50.815	5 3/8	91.634
3/4	1.493	1 1/2	5.972	3	23.888	4 1/2	53.760	6	95.552

Weight of Square Rolled Iron per Linear Foot.

Size.	Weight.	Size.	Weight.	Size.	Weight.	Size.	Weight.	Size.	Weight.
1-16	.013	13-16	2.231	2	13.520	3 3/8	38.503	4 3/4	76.264
3/8	.053	7/8	2.588	2 1/8	15.263	3 1/2	41.408	4 7/8	80.333
3-16	.119	15-16	2.971	2 1/4	17.112	3 3/8	44.418	5	84.480
1/4	.211	1	3.380	2 3/8	19.066	3 3/4	47.534	5 1/8	88.784
5-16	.330	1-16	3.816	2 1/2	21.120	3 7/8	50.756	5 1/4	93.168
3/8	.475	1 1/8	4.278	2 5/8	23.292	4	54.084	5 3/8	97.657
7-16	.647	1 1/4	5.280	2 3/4	25.560	4 1/8	57.517	5 1/2	102.240
1/2	.845	1 3/8	6.390	2 7/8	27.939	4 1/4	61.055	5 5/8	106.953
9-16	.1.069	1 1/2	7.604	3	30.416	4 3/8	64.700	5 3/4	111.756
5/8	1.320	1 1/2	8.926	3 1/8	33.010	4 1/2	68.448	5 3/8	116.671
11-16	1.597	1 3/4	10.352	3 1/4	35.704	4 5/8	72.305	6	121.664
3/4	1.901	1 1/2	11.883						

A cubic inch of wrought iron weighs..... .2817 lb.

A cubic inch of cast iron weighs..... .2607 lb.

Weight of Flat Rolled Iron per Linear Foot.

WIDTH.	THICKNESS.									
	1/4	5-16	3/8	7-16	1/2	5/8	3/4	7/8	1	1 1/4
1/8	.422	.528	.634	.738	.845	.....	.....	.....	.....	.....
3/8	.528	.660	.792	.923	1.056	1.320	1.901	2.588	.....	.....
5/8	.633	.792	.950	1.108	1.294	1.477	1.840	2.217	2.534	3.380
7/8	.738	.923	1.108	1.294	1.478	1.690	2.112	2.556	2.956	3.802
1	.845	1.056	1.267	1.478	1.663	1.901	2.375	2.850	3.326	4.752
1 1/8	.950	1.187	1.425	1.663	1.901	2.112	2.640	3.168	3.606	4.224
1 1/4	1.056	1.320	1.584	1.848	2.112	2.640	3.168	3.606	4.224	5.280
1 1/8	1.161	1.452	1.742	2.032	2.325	2.904	3.484	4.065	4.646	5.808
1 1/2	1.266	1.584	1.900	2.217	2.535	3.168	3.802	4.435	5.069	6.337
1 3/8	1.372	1.716	2.059	2.402	2.746	3.432	4.119	4.805	5.492	6.864
1 1/2	1.497	1.848	2.218	2.589	2.957	3.696	4.435	5.178	5.914	7.393
1 7/8	1.584	1.980	2.376	2.772	3.168	3.960	4.752	5.544	6.336	7.921
2	1.689	2.112	2.534	2.957	3.379	4.224	5.069	5.914	6.758	8.448
2 1/8	1.795	2.244	2.693	3.141	3.591	4.488	5.386	6.283	7.181	8.977
2 1/4	1.900	2.376	2.851	3.326	3.802	4.752	5.703	6.653	7.604	9.505
2 3/8	2.006	2.508	3.009	3.511	4.013	5.016	6.019	7.022	8.025	10.032
2 1/2	2.112	2.640	3.168	3.696	4.224	5.280	6.336	7.392	8.448	10.560
2 5/8	2.323	2.904	3.485	4.066	4.647	5.808	6.970	8.132	9.294	11.617
3	2.535	3.168	3.802	4.435	5.069	6.337	7.604	8.871	10.138	12.673
3 1/8	2.746	3.432	4.119	4.805	5.492	6.865	8.237	9.610	10.983	13.730
3 1/4	2.957	3.696	4.436	5.175	5.914	7.393	8.871	10.350	11.828	14.785
3 3/4	3.168	3.990	4.752	5.544	6.336	7.921	9.505	11.089	12.673	15.841
4	3.380	4.224	5.069	5.914	6.759	8.448	10.138	11.828	13.518	16.897
4 1/2	3.802	4.752	5.703	6.653	7.604	9.504	11.406	13.306	15.208	19.010
5	4.224	5.280	6.330	7.392	8.449	10.560	12.673	14.784	16.897	21.122
5 1/2	4.647	5.808	6.970	8.132	9.294	11.616	13.940	16.264	18.587	23.234
6	5.070	6.337	7.604	8.871	10.138	12.674	15.208	17.742	20.276	25.346

APPROXIMATE WEIGHTS.

